

PRICE TEN CENTS.

CENTENNIAL HISTORICAL CALENDAR

1876



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1876

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BIRD'S EYE VIEW,
CENTENNIAL INTERNATIONAL EXHIBITION.

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"Chas. I. Owens."

THE CENTENNIAL HISTORICAL CALENDAR

FOR THE YEAR

A LEAP-YEAR

—1876—

OF 366 DAYS.

Being the latter part of the one hundredth, and the beginning of the one hundred and first, year of the Independence of the United States of America. Also,

The Year 7385 of the Byzantine Era;

The Year 5636-37 of the Jewish Era;

The Year 2629 since the foundation of Rome, according to Varro;

The Year 1293 of the Mohammedan Era, or the Era of Hegira, beginning February 28, 1876.

CHRONOLOGICAL CYCLES.

Dominical Letters.....	B. A.	Solar Cycle.....	9
Epact.....	4	Roman Indiction.....	4
Lunar Cycle, or Golden Number.....	15	Julian Period	6589

SEASONS.

Spring begins.....	Sun's entrance in.....	☿	March 20.....	1 o'clock 20 minutes.....	Morning
Summer begins	Sun's entrance in.....	♊	June 20.....	10 o'clock 18 minutes.....	Evening.
Autumn begins.....	Sun's entrance in.....	♋	Sept. 22.....	12 o'clock 10 minutes.....	Afternoon.
Winter begins.....	Sun's entrance in.....	♏	Dec. 21.....	6 o'clock 22 minutes.....	Morning.

ASTRONOMICAL SIGNS.

☉ The Sun.	♂ Mars.	♊ Conjunction.	☾ First Quarter.
♁ The Earth.	♃ Jupiter.	♋ Opposition.	☾ Full Moon.
☿ Mercury.	♄ Saturn.	♌ Ascending Node.	☾ Last Quarter.
♀ Venus.	♁ Herschel.	♍ Descending Node.	☾ New Moon.
♈ Aries, or Ram.	♋ Cancer, or Crab-fish.	♎ Libra, or Balance.	♏ Capricornus, or Goat.
♉ Taurus, or Bull.	♌ Leo, or Lion.	♏ Scorpio, or Scorpion.	♐ Aquarius, or Waterman.
♊ Gemini, or Twins.	♍ Virgo, or Virgin.	♐ Sagittarius, or Bowman.	♑ Pisces, or Fishes.

FIXED AND MOVABLE FESTIVALS.

Epiphany	Jan. 6	Palm Sunday.....	April 9	Trinity Sunday.....	June 11
Septuagesima Sunday...	Feb. 13	Good Friday.....	April 14	Corpus Christi.....	June 15
Quinquagesima, (Shrove Sunday)....	Feb. 27	Easter Sunday.....	April 16	First Sun. in Advent....	Dec. 3
Ash Wednesday.....	Mar. 1	Low Sunday.....	April 23	Christmas.....	Dec. 25
First Sunday in Lent....	Mar. 5	Rogation Sunday.....	May 21	St. John, Baptist.....	June 24
St. Patrick.....	Mar. 17	Ascension Day.....	May 25	St. Nicholas.....	Dec. 6
		Pentecost (Whit Sun.)	June 4	St. John, Evangelist....	Dec. 27

ECLIPSES, 1876.

In the year 1876 there will be four Eclipses — two of the Sun, and two of the Moon.

I. A Partial Eclipse of the Moon, night of March 9-10. Visible to the world generally, except to Asia and Australia.

II. An Annular Eclipse of the Sun, March 25. Visible to North America and Northern Pacific Ocean.

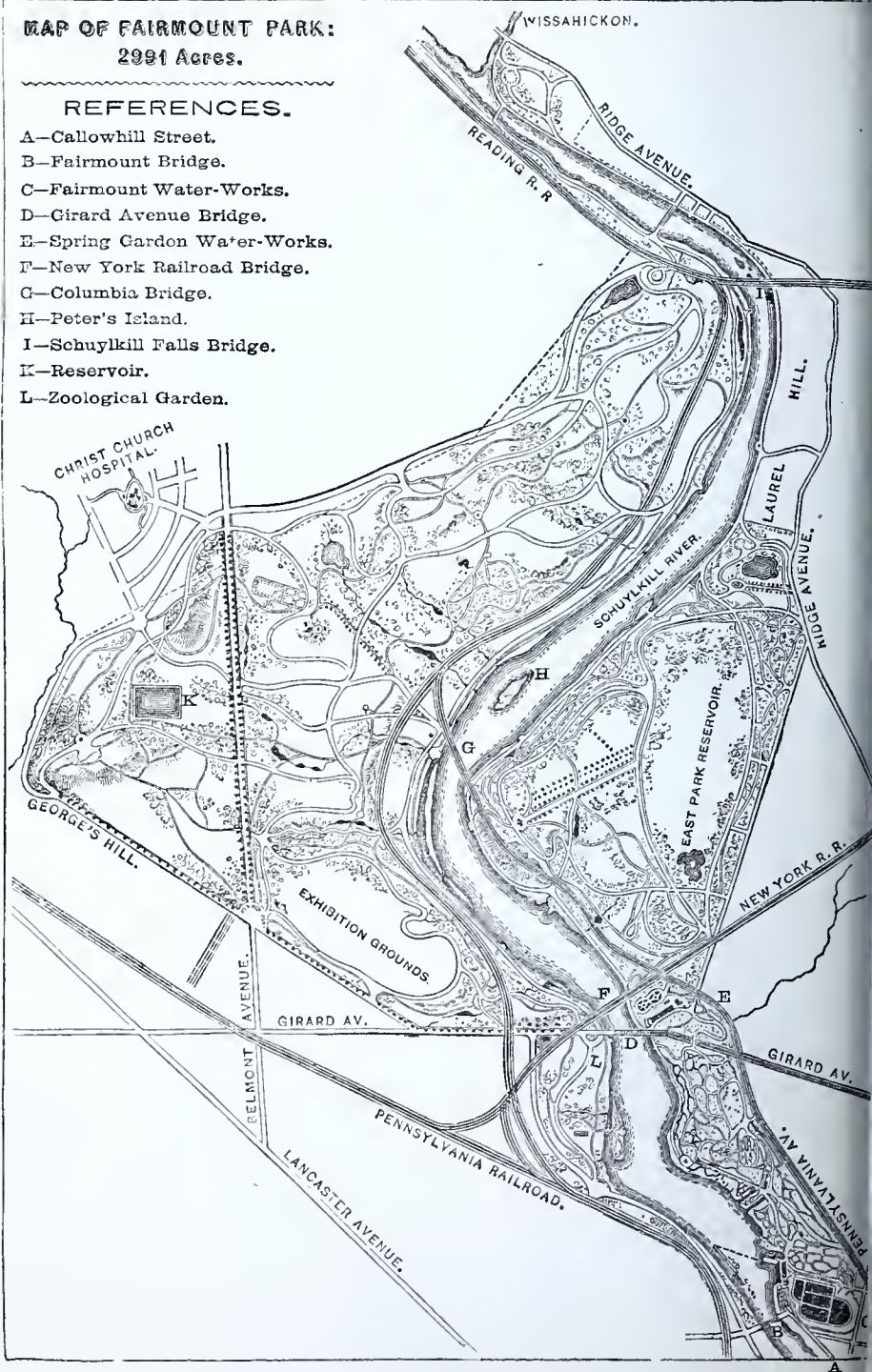
III. A Partial Eclipse of the Moon, September 3. Invisible. Visible to the world generally, except to North America and Pacific Ocean.

IV. A Total Eclipse of the Sun, September 18. Invisible. Visible to Australia and Southern Pacific Ocean.

MAP OF FAIRMOUNT PARK:
2991 Acres.

REFERENCES.

- A—Callowhill Street.
- B—Fairmount Bridge.
- C—Fairmount Water-Works.
- D—Girard Avenue Bridge.
- E—Spring Garden Water-Works.
- F—New York Railroad Bridge.
- G—Columbia Bridge.
- H—Peter's Island.
- I—Schuylkill Falls Bridge.
- K—Reservoir.
- L—Zoological Garden.



MOON'S PHASES.

D. H. M.
First Quarter.. 4 10 23, mo.
Full Moon..... 11 1 22, mo.
Last Quarter... 18 3 46, mo.
New Moon..... 26 8 41, mo.



SUN SLOW.

D.	M.	S.
1	4	0
5	5	40
9	6	58
13	8	40
17	9	52
21	11	54
25	13	0
29	13	20

EQUATION OF TIME.

Day of Week

D. of M.

AMERICAN HISTORICAL EVENTS.

Latitude of Middle States.

THE SUN Rises h. m.	THE SUN Sets. h. m.	THE MOON R & S. h. m.	THE MOON Souths h. m.	MOON'S PLACE. S. D.		
7 23 4 45	9 35	3 58				6
7 23 4 46	10 40	4 41				19
7 23 4 47	11 46	5 24				2
7 23 4 47	morn	6 9				15
7 23 4 48	0 55	6 57				29
7 23 4 49	2 8	7 50				13
7 23 4 50	3 26	8 49				27
7 23 4 51	4 45	9 54				12
7 22 4 52	6 0	11 1				27
7 22 4 53	7 8	morn				12
7 22 4 54	rises.	0 8				27
7 22 4 55	6 41	1 11				12
7 21 4 56	7 57	2 8				27
7 21 4 57	9 9	2 59				11
7 20 4 58	10 17	3 46				24
7 20 4 59	11 22	4 30				7
7 20 5 0	morn	5 12				20
7 19 5 1	0 26	5 55				2
7 19 5 3	1 30	6 38				14
7 18 5 4	2 33	7 24				26
7 18 5 5	3 35	8 11				8
7 17 5 6	4 35	9 1				20
7 16 5 7	5 30	9 53				1
7 16 5 9	6 19	10 44				13
7 15 5 10	sets.	11 35				26
7 14 5 11	5 17	0 25				8
7 13 5 12	6 23	1 12				20
7 12 5 13	7 28	1 56				3
7 12 5 15	8 33	2 40				16
7 11 5 16	9 40	3 23				29
7 10 5 17	10 47	4 7				12

CONJECTURES OF THE WEATHER.

1, 2, clear; 3, 4, snow; 5, 6, 7, cold; 8, 9, 10, pleasant; 11, 12, 13, variable; 14, 15, 16, 17, cold; 18, 19, 20, cloudy; 21, 22, 23, changeable; 24, 25, 26, clear; 27, 28, snow and cold; 29, 30, 31, cold.

JEWISH CALENDAR.

5636 January 7, Fast of Tebeth; 27, Rosh Chodesh Shebat

RAILROADS TO CENTENNIAL GROUNDS.

Pennsylvania Central.—Connects with all lines from the East, West and South. Depot, Thirty-second and Market streets. Passenger Depot on Elm avenue, adjoining Exhibition Buildings, and in immediate vicinity of several new hotels.

Philadelphia and Reading.—Connects with all lines through the coal and lumber regions of Pennsylvania, and from the North and Northwest. Depot, Broad and Callowhill streets. Passenger Depot at Belmont, within the Park, close to the Exhibition Buildings.

North Pennsylvania.—Connects with Lehigh Valley and Central Railroad of New Jersey, and all lines North and Northwest. Depot, Berks and American streets. Junction with Pennsylvania Railroad at intersection with connecting railroad, thence to Exhibition Buildings.

Philadelphia, Wilmington and Baltimore.—Connects with Baltimore and Ohio Railroad, and all lines from the South and Southwest. Depot, Broad street and Washington avenue. At Gray's Ferry intersects the Pennsylvania Railroad, thence to Exhibition Buildings.

CENTENNIAL TRANSPORTATION FACILITIES.

The character of the facilities in preparation for handling articles and packages shipped to the Centennial Exhibition are such as to admit of the service being rendered in a very satisfactory manner. This problem of transportation being one of the most important relating to the success of an exhibition, it is gratifying to find that the matter has been well provided for. Mr. Adolphus Torrey is at the head of the Bureau of Transportation for the Centennial International Exhibition. The national system of interchange of cars enables goods from all points in the United States or the Canadas to be shipped directly to Philadelphia, without breaking bulk, and water communication opens the Exhibition to all parts of the world. The service upon the grounds will include the delivery of the goods or packages in the space where they are to be unpacked and displayed; the removal and storage during the Exhibition of the empty packing cases, and finally, when they are refilled with the articles exhibited, removing them from the Exhibition for reshipment.

As the greater part of the goods arrive in a space of a very few days just previous to the opening, arrangements have been made to dispose a great bulk of freight in an exceedingly short time. Separate railroad stations are provided to the number of eleven, each station answering for that portion of the grounds and buildings in its neighborhood. These stations consist of covered platforms 160 feet long by 24 wide, at which 5 cars at a time can unload, and side tracks at each station accommodate 5 cars more. Four of these platforms will immediately adjoin the main Exhibition Building. Three are for the use of the Machinery Hall, but the tracks will also traverse the whole length of this structure in several aisles, for the unloading of heavy articles. Of the remaining stations, one will be near the United States Government Buildings, one will be for the use of the Agricultural Building, one will be at another point near the lake.

The floor space of the larger buildings is divided into rectangular compartments, lettered and numbered, somewhat after the plan of the Philadelphia streets, a plan which makes it easy for the exhibitor to find his proper location.

MOON'S PHASES.

D.	H.	M.
First Quarter...	2	8 52, eve.
Full Moon.....	9	0 46, aft.
Last Quarter..	16	11 55, mo.
New Moon....	25	1 19, mo.



SUN SLOW.	D.	M.	S.
1	14	0	
5	13	59	
9	13	40	
13	14	0	
17	14	0	
21	14	0	
25	13	32	
29	13	0	

EQUATION OF TIME.

Day of Week	D. of M.	AMERICAN HISTORICAL EVENTS.	Latitude of Middle States.									
			THE SUN			THE MOON			MOON'S PLACE.			
			Rises	Sets.	R & S.	Souths			S.	D.		
			<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>	<i>h. m.</i>					
Tu.	1	1862, Lincoln called for 500,000 men.	7 9	5 18	1 5	4 53					25	
W.	2	1848, Treaty of peace with Mexico.	7 8	5 19	morn	5 43					9	
Th.	3	1864, Sherman invaded Mississippi.	7 7	5 21	1 11	6 38					23	
Fri.	4	1861, Southern Confederacy formed.	7 6	5 22	2 27	7 38					7	
Sat.	5	1733, Savannah settled by Oglethorpe.	7 5	5 23	3 41	8 42					22	
S.	6	1778, Alliance formed with France.	7 4	5 24	4 50	9 48					6	
Mo.	7	1863, Union forces defeated at Williams'g.	7 3	5 25	5 50	10 51					21	
Tu.	8	1862, Roanoke Island captured.	7 2	5 27	6 38	11 50					6	
W.	9	1773, William Henry Harrison born.	7 1	5 28	rises.	morn					20	
Th.	10	1863, Longworth (dis. horticulturist) died.	7 0	5 29	6 45	0 44					5	
Fri.	11	1811, Territory of Louisiana organized.	6 59	5 30	7 55	1 34					19	
Sat.	12	1809, Abraham Lincoln born.	6 57	5 31	9 3	2 20					2	
S.	13	1862, Treas. Bank-Note Bill passed Cong.	6 56	5 33	10 9	3 4					15	
Mo.	14	1859, Oregon admitted into the Union.	6 54	5 34	11 14	3 48					28	
Tu.	15	1738, New Jersey separated from N. York.	6 53	5 35	morn	4 32					10	
W.	16	1862, Fort Donelson captured.	6 52	5 36	0 20	5 17					22	
Th.	17	1815, The War of 1812 ended.	6 51	5 37	1 24	6 4					4	
Fri.	18	1795, George Peabody born.	6 49	5 39	2 25	6 54					16	
Sat.	19	1861, Maryland State Convention met.	6 48	5 40	3 23	7 45					28	
S.	20	1864, Confederate victory at Olustee, Fla.	6 47	5 41	4 15	8 37					10	
Mo.	21	1865, U. S. forces entered Charleston, S. C.	6 46	5 42	5 0	9 28					22	
Tu.	22	1732, George Washington born.	6 44	5 43	5 38	10 18					4	
W.	23	1848, John Quincy Adams died.	6 43	5 45	6 9	11 6					16	
Th.	24	1847, Mexicans defeated by Gen. Taylor.	6 41	5 46	sets.	11 52					29	
Fri.	25	1864, Gen. Sherman arrived at Memphis.	6 40	5 47	6 22	0 37					12	
Sat.	26	1624, Bergen, N. J., settled by the Dutch.	6 38	5 48	7 29	1 21					25	
S.	27	1863, Naval battle at Fort McAllister, La.	6 37	5 49	8 37	2 5					9	
Mo.	28	1854, Richard Stockton died.	6 35	5 51	9 48	2 21					22	
Tu.	29	1836, Indians sent west of the Mississippi.	6 34	5 52	11 2	3 41					6	

CONJECTURES OF THE WEATHER.

1, 2, 3, clear; 4, 5, 6, cold; 7, 8, 9, snow; 10, 11, 12, cold; 13, 14, changeable; 15, 16, 17, clear; 18, 19, 20, cold and snow; 21, 22, 23, pleasant; 24, 25, 26, changeable; 27, 28, 29, windy.

JEWISH CALENDAR.

5636. February 10, Rosh Shanah Leaylanot; 25, 26, Rosh Onodesh Adar.

STREET RAILWAYS TO CENTENNIAL GROUNDS.

WALNUT STREET.—*Yellow cars, orange light.*—From Front street out Walnut to 22d, to Chestnut, to 32d, to Lancaster avenue, to Belmont avenue, to Exhibition Building.

MARKET STREET.—*Blue cars, red light.*—From Front street out Market to 41st, thence along Elm avenue in front of Exhibition Building to main entrance.

ARCH STREET.—*Yellow cars, green light.*—From Second street out Arch to 21st, to Callowhill, to 23d, thence pass over Hestonville line via Fairmount bridge to Lancaster avenue and Belmont avenue to Centennial grounds.

VINE STREET.—*Yellow cars, red light.*—From Dock street up Third, out Vine to 23d, to Spring Garden, across Fairmount bridge to Lancaster avenue and Belmont avenue to Centennial grounds.

CALLOWHILL STREET.—*Yellow cars, orange light.*—From Vine street wharf up Front to Callowhill, to Fairmount.

PINE STREET.—*White cars, red light.*—From Dock street down Second to Pine, out to 23d, to Callowhill, to 25th, to Green, thence to Fairmount.

EIGHTH STREET AND FAIRMOUNT AVENUE.—*Green cars, red light.*—*Main line*, from Dickinson street up Eighth to Fairmount avenue, out to Fairmount.

Walnut street line. From Fourth street, out Walnut, up Eighth to Fairmount avenue, out to Fairmount.

EIGHTH STREET AND GIRARD AVENUE.—*Yellow cars, green light.*—*Main line.* From Dickinson street up Eighth to Girard avenue. Transfer to Girard avenue line, to Elm avenue, to entrance to Centennial grounds.

Walnut street line. From Fourth street out Walnut to Eighth, to Girard avenue. Transfer to Girard avenue line to Centennial grounds.

UNION LINE.—*Yellow cars, red light.*—From Front street out Wharton, up Ninth to Spring Garden, to 23d, to Brown, to Fairmount.

Green cars, red light. From Baltimore R. R. Depot down Christian, up Ninth to Spring Garden. Transfer to yellow car for Fairmount.

Red cars, orange light. From Front street out Market, up Ninth to Spring Garden. Transfer to yellow car for Fairmount.

WEST END RAILWAY cars run in West Philadelphia, North and South, and around the Centennial Buildings.

STEAMBOATS leave Fairmount Water Works on Schuylkill river every few minutes for Zoological Garden; and for Belmont, close to Exhibition Buildings.

FOR ZOOLOGICAL GARDEN, also take cars of Arch street or Vine street lines, transfer at 35th and Haverford streets. These lines sell two passage tickets and one admission ticket to Garden for 30 cents.

RATES OF FARE.—A single fare for an adult person is 7 cents, or four tickets for 25 cents. These tickets are sold by all conductors, and are good on all the roads. Fare for children four cents. Roads running more than one line give transfer tickets over connecting lines for single fare. Exchange tickets, costing nine cents, are sold by conductors of all lines except Union and Ridge avenue. These are good only on roads crossing and on the day of their issue. Care should always be exercised in taking passage to avoid getting upon the wrong car; the conductors generally are courteous and polite, and ready to answer questions or give information.

3d Month.]

MARCH, 1876.

[31 Days.

MOON'S PHASES.

D. H. M.	
First Quarter...	3 4 47, mo.
Full Moon.....	10 1 11, mo.
Last Quarter...	17 8 23, aft.
New Moon.....	25 3 11, aft.



SUN SLOW.

D.	M.	S.
1	12	0
5	11	50
9	11	0
13	9	54
17	9	0
21	7	40
25	6	0
29	4	56

EQUATION OF TIME.

Day of Week	D. of M.	AMERICAN HISTORICAL EVENTS.	Latitude of Middle States.									
			THE SUN		THE MOON		R & S.		Souths		MOON'S PLACE.	
			Rises	Sets.	R	S.	h.	m.	h.	m.	S.	D.
			h.	m.	h.	m.	h.	m.	h.	m.		
W.	1	1867, Nebraska admitted into the Union.	6	32	5	53	morn	4	34		20	
Th.	2	1776, Siege of Boston commenced.	6	31	5	54	0	17	5	31		4
Fri.	3	1845, Florida admitted into the Union.	6	29	5	55	1	31	6	33		18
Sat.	4	1789, New Constitution U. S. took effect.	6	28	5	56	2	40	7	36		2
S.	5	1770, "Boston massacre."	6	26	5	57	3	41	8	39		17
Mo.	6	1863, Great financial excitement.	6	25	5	58	4	32	9	38		1
Tu.	7	1862, Battle at Pea Ridge, Ark.	6	23	5	59	5	11	10	33		15
W.	8	1872, Ex-President Fillmore died.	6	22	6	0	5	42	11	23		29
Th.	9	1862, Naval fight bet. Monitor & Merrimac	6	20	6	1	rises.	morn		13		
Fri.	10	1847, Gen. Scott landed troops in Mexico.	6	19	6	2	6	44	0	10		27
Sat.	11	1789, Incorporation of city of Philadelphia.	6	17	6	3	7	50	0	55		10
S.	12	1872, Charles Sumner died.	6	15	6	4	8	56	1	39		23
Mo.	13	1692, Penn loses his title to Penna. lands.	6	14	6	5	10	3	2	23		1
Tu.	14	1862, Burnside captured Newbern, N. C.	6	12	6	7	11	9	3	9		18
W.	15	1767, Andrew Jackson born.	6	11	6	8	morn	3	56		0	
Th.	16	1751, James Madison born.	6	9	6	9	0	13	4	45		12
Fri.	17	1776, British evacuated Boston.	6	7	6	10	1	11	5	36		24
Sat.	18	1782, John C. Calhoun born.	6	6	6	11	2	6	6	28		6
S.	19	1862, Battle at Island No. 10.	6	4	6	12	2	54	7	19		18
Mo.	20	1854, Com. Perry made treaty with Japan.	6	3	6	13	3	36	8	9		0
Tu.	21	1864, Nevada admitted into the Union.	6	1	6	14	4	10	8	58		12
W.	22	1820, Com. Barron kills Decatur in a duel.	5	59	6	15	4	37	9	45		25
Th.	23	1847, Battle at Buena Vista, Mexico.	5	57	6	16	5	2	10	30		7
Fri.	24	1862, Battle near Winchester, Va.	5	56	6	17	5	24	11	14		21
Sat.	25	1774, Obnoxious Boston port bill passed.	5	54	6	18	sets.	11	59		4	
S.	26	1847, Castle San Juan de Ulua surrendered.	5	52	6	19	7	33	0	46		18
Mo.	27	1814, Encounter with Creek Indians.	5	50	6	20	8	48	1	35		2
Tu.	28	1874, Labor riot at Susquehanna Depot, Pa.	5	49	6	21	10	4	2	28		16
W.	29	1849, Vera Cruz occupied.	5	47	6	22	11	21	3	25		0
Th.	30	1850, Death of John C. Calhoun.	5	46	6	23	morn	4	27		15	
Fri.	31	1865, Battle at Five Forks, Va.	5	44	6	24	0	33	5	30		29

CONJECTURES OF THE WEATHER.

1, 2, stormy; 3, 4, clear; 5, 6, 7, pleasant; 8, 9, 10, cloudy; 11, 12, 13, windy; 14, 15, 16, cool; 17, 18, 19, rain; 20, 21, 22, 23, clear; 24, 25, changeable; 26, 27, 28, windy; 29, 30, 31, cloudy.

JEWISH CALENDAR.

5636. March 9, Fast of Esther; 10, 11, Purim; 26, Rosh Chodesh Nissan.

DIRECTORY OF THE PRINCIPAL HOSPITALS, HOMES, AND CHARITABLE INSTITUTIONS.

Alms-house (City), Darby road and Thirty-fourth to P streets, West Phila.
Bedford Street Mission, No. 619 Alaska street.
Baptist Church Home (for Aged and Infirm members), Seventeenth & Norris sts.
Blind, Asylum for the, Twentieth and Race streets.
County Prison (Moyamensing), Passayunk road and Reed street.
Christ Church Hospital, Belmont avenue and Monument road, West Phila.
Charity Hospital of Philadelphia, No. 1832 Hamilton street.
Childrens' Hospital, Twenty-second street, near Locust.
Deaf Mutes, Asylum for, Broad and Pine streets.
Episcopal Church Hospital, Front street and Lehigh avenue.
Eastern State Penitentiary, Fairmount avenue and Twentieth street.
Foster Home Association, Twenty-fourth and Brown streets.
Friends' Asylum for the Insane, near Frankford.
Franklin Reformatory Home for Inebriates, No. 913 Locust street.
German Hospital, corner of Corinthian and Girard Avenues.
Girard College for Orphans, Ridge and Girard avenues.
German Society, No. 24 South Seventh street.
Homœopathic Hospital, No. 1116 Cuthbert street.
House of Refuge (White and Colored Departments), Twenty-third & Parrish sts.
House of Correction, Bridesburg, on the Delaware, above the city.
Home for Aged and Infirm Colored Persons, Belmont and Girard avenues, W. P.
Hospital of the University, Thirty-fourth and Spruce streets, West Phila.
House of the Good Shepherd, Twenty-second street, above Walnut.
Home for Destitute Colored Children, Darby road and Forty-sixth street.
Hospital for the Insane, (Dr. Kirkbride, supt.) Haverford road & 50th st., W. P.
Indigent Widows' and Single Women's Society, Cherry street, west of 17th.
Insane Hospital (Penna.), Haverford Road and Forty-third street, W. P.
Jewish Hospital, Haverford Road, near Fifty-sixth street, West Phila.
Methodist Church Home (for Aged and Infirm members), Broad st. & Lehigh av.
Northern Home for Friendless Children, Twenty-third and Brown streets.
Orphans' Society of Philadelphia, Haverford road and Sixty-third street.
Old Man's Home, Thirty-ninth and Arch streets, West Philadelphia.
Pennsylvania Hospital, Eighth to Ninth, Spruce to Pine streets.
Presbyterian Hospital, Thirty-ninth and Filbert streets, West Phila.
Presbyterian Church Home (for Aged and Infirm), Kingsessing ave. & 58th st.
Penn Widows' Asylum, Belgrade street, above Otis, Kensington.
Philadelphia Hospital (City), Darby road and Thirty-fourth street, West Phila.
Preston Retreat (Lying-in Asylum), Hamilton and Twentieth streets.
Pennsylvania Seamen's Friend Society, No. 422 South Front street.
St. Joseph's Hospital, Girard avenue and Seventeenth street.
St. Mary's Hospital, Frankford avenue and Palmer street.
St. John's Orphan Asylum, Westminster avenue and Forty-ninth street, W. P.
Society of the United Hebrew Charities, No. 30 North Seventh street.
Training School for Feeble Minded Children, Media, near Philadelphia.
U. S. Naval Asylum and Hospital, Gray's Ferry road, below South street.
Wills' Hospital (for Indigent Lame and Blind), Race and Eighteenth streets.
Woman's Hospital, North College avenue and Twenty-second street.

4th Month.]

APRIL, 1876.

[30 Days.

MOON'S PHASES.

D. H. M.	
First Quarter..	1 11, mo.
Full Moon....	8 2 38, aft.
Last Quarter..	16 3 36, aft.
New Moon....	24 2 2, mo.
First Quarter..	30 5 26, eve.



SUN SLOW.

D. M. S.	
1	11 58
5	12 9
9	11 0
13	9 6
17	8 0
21	7 13
25	6 21
29	5 0

EQUATION OF TIME.

			Latitude of Middle States.									
Day of Week	D. of M.	AMERICAN HISTORICAL EVENTS.	THE SUN		THE MOON		MOON'S					
			Rises	Sets.	R & S.	Souths	PLACE.					
			h. m.	h. m.	h. m.	h. m.	h. m.	S. D.				
Sat.	1	1865, Battle at Petersburg, Va.	5 42	6 25	1 37	6 33		13				
S.	2	1872, Prof. Morse (telegraph inven.) died.	5 41	6 26	2 31	7 32		27				
Mo.	3	1865, Richmond evacuated.	5 39	6 27	3 12	8 27		11				
Tu.	4	1512, Florida discovered.	5 38	6 28	3 45	9 17		25				
W.	5	1841, President Harrison died.	5 36	6 29	4 11	10 4		9				
Th.	6	1871, Storeship "Relief" sailed to France.	5 34	6 30	4 32	10 49		22				
Fri.	7	1863, Battle at Cedar Bluff, Va.	5 33	6 31	4 57	11 32		5				
Sat.	8	1812, Louisiana admitted into the Union.	5 31	6 32	riser.	morn		18				
S.	9	1865, Grant & Lee at Appomattox C. H., Va	5 30	6 33	7 45	0 16		1				
Mo.	10	1863, Battle at Franklin, Tenn.	5 28	6 34	8 52	1 1		13				
Tu.	11	1862, Fort Pulaski captured.	5 27	6 35	9 58	1 48		26				
W.	12	1782, Capt. Huddy, of N. J., hung by Tories.	5 25	6 36	10 59	2 36		8				
Th.	13	1791, James Buchanan born.	5 24	6 37	11 56	3 27		20				
Fri.	14	1865, President Lincoln assassinated.	5 22	6 38	morn	4 19		2				
Sat.	15	1865, A. Johnson inaugurated President.	5 21	6 39	0 47	5 10		14				
S.	16	1861, Pres. Lincoln called for 75,000 men.	5 20	6 40	1 31	6 1		26				
Mo.	17	1609, Hudson landed at Manhattan Island	5 18	6 41	2 8	6 49		8				
Tu.	18	1847, Battle of Cerro Gordo, Mexico.	5 17	6 42	2 37	7 36		20				
W.	19	1775, Battles at Lexington and Concord.	5 15	6 43	3 2	8 21		2				
Th.	20	1865, Macon, Ga., surrendered.	5 14	6 44	3 26	9 5		15				
Fri.	21	1863, Confed. victory at Plymouth, N. C.	5 13	6 45	3 49	9 50		29				
Sat.	22	1863, Battle near Strasburg, Va.	5 11	6 46	4 11	10 35		13				
S.	23	1864, Battle at Cane River, La.	5 10	6 47	4 34	11 24		27				
Mo.	24	1704, First newspaper in Amer. published.	5 8	6 48	sets.	0 16		11				
Tu.	25	1777, LaFayette arrived at Charleston, S.C.	5 7	6 49	9 3	1 13		25				
W.	26	1869, Semi-centennial anniver. I. O. O. F.	5 6	6 50	10 19	2 15		10				
Th.	27	1791, Prof. Morse born.	5 4	6 51	11 28	3 20		25				
Fri.	28	1863, Confederates took Fairmount, W. Va.	5 3	6 52	morn	4 25		10				
Sat.	29	1758, James Monroe born.	5 1	6 53	0 27	5 27		24				
S.	30	1789, George Washington inaugurated.	5 0	6 54	1 13	6 23		8				

CONJECTURES OF THE WEATHER.

1, 2, 3, clear; 4, 5, 6, variable; 7, 8, showers; 9, 10, 11, clear; 12, 13, 14, rain; 15, 16, 17, changeable; 18, 19, 20, fair; 21, 22, 23, showers; 24, 25, 26, pleasant; 27, 28, 29, 30, clear and balmy.

JEWISH CALENDAR.

5636. April 9, 10, Pesach, first two days; 15, 16, Pesach, last two days; 24, 25, Rosh Chodesh Lyar.

PRINCIPAL PUBLIC BUILDINGS, CEMETERIES AND OTHER PLACES OF INTEREST.

Apprentices' Library, south-west corner of Fifth and Arch streets.
Academy of Natural Sciences, corner of Nineteenth and Race streets.
Academy of the Fine Arts, North Broad street, corner of Cherry.
American Philosophical Society, Fifth street, south of Chesnut, west side.
Athenæum of Philadelphia, corner of Sixth and Adelphi streets.
Commercial Exchange, Second street, between Chestnut and Walnut.
Cathedral Cemetery, Lancaster avenue and Forty-eighth street, West Phila.
Christ Church, Second street, between Arch and Market.
Carpenters' Hall, Chestnut street, between Third and Fourth.
Cathedral of St. Peter and St. Paul, Eighteenth street, above Race.
Fairmount Water Works, East Park, between Callowhill street and Fairmount ave.
Franklin Institute, No. 15 South Seventh street.
Glenwood Cemetery, Ridge avenue and Islington lane.
Gas Works (City), Schuylkill river, near Point Breeze.
Grave of Benjamin Franklin, south-east corner of Fifth and Arch streets.
Historical Society of Pennsylvania, Spruce street, west of Eighth.
Independence Hall, Chestnut street, between Fifth and Sixth streets.
Law Association of Philadelphia, corner of Sixth and Walnut streets.
Laurel Hill Cemetery, Ridge avenue, near Falls of Schuylkill.
Library Company of Philadelphia, corner of Fifth and Library streets.
Merchants' Exchange, corner of Third and Walnut streets.
Mercantile Library, Tenth street, north of Chestnut.
Masonic Temple, corner of Broad and Filbert streets.
Morgue, Delaware avenue and Noble street.
Monument Cemetery, Broad street and Montgomery avenue.
Mount Moriah Cemetery, Darby road, bordering on Delaware county, W. P.
Mount Vernon Cemetery, Ridge avenue, opposite Laurel Hill.
Odd Fellows' Hall, corner of Sixth and Haines streets.
Old London Coffee House, A. D., 1701, south-west cor. Front and Market streets.
Odd Fellows' Cemetery, Twenty-fourth street and Islington lane.
Old Swedes' Church, A. D., 1705, Swanson street, above Washington avenue.
Press Club of Philadelphia, No. 521 Chestnut street.
Red Men's Hall, corner of Third and Brown streets.
Society of Sons of St. George, corner of Thirteenth and Arch streets.
School of Design for Women, North-west Penn square and Filbert street.
University of Pennsylvania, Thirty-fourth and Spruce streets, West Phila.
U. S. Arsenal, Bridesburg, near the city, on Delaware river.
U. S. Military Clothing and Equipage Depot, Gray's Ferry road & Washington av.
U. S. Custom House and Sub Treasury, Chestnut street, above Fourth.
U. S. Mint, corner of Chestnut and Juniper streets.
U. S. Naval Station, League Island, foot of Broad street.
U. S. Post Office, Chestnut street, below Fifth.
United American Mechanics' Hall, corner of Fourth and George streets.
Union League House, corner of Broad and Sansom streets.
Wagner Free Institute of Science, Montgomery avenue and Seventeenth street.
Woodland Cemetery, Darby road and Thirty-ninth street, West Philadelphia.
Young Men's Christian Association, corner of Fifteenth and Chestnut streets.
Zoological Garden, Fairmount Park, west side Schuylkill, near Girard ave. Bridge.

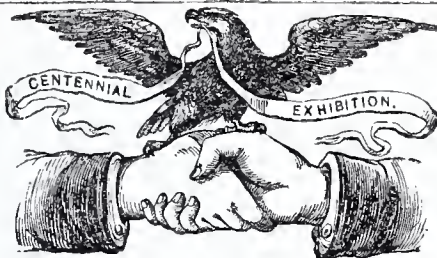
5th Month.]

MAY, 1876.

[31 Days.

MOON'S PHASES.

D. H. M.
Full Moon..... 8 4 55, mo.
Last Quarter... 16 8 26, mo.
New Moon..... 23 10 24, mo.
First Quarter. 30 0 46, mo.



SUN FAST.

D.	M.	S.
1	3	28
5	3	56
9	4	24
13	4	48
17	4	56
21	4	0
25	3	0
29	2	58

EQUATION OF TIME.

Day of
Week M.

AMERICAN HISTORICAL EVENTS.

Latitude of Middle States.

	D.	of	M.		THE SUN				THE MOON				MOON'S PLACE.	D.
					Rises	Sets.	R & S.	Souths	Rises	Sets.	R & S.	Souths		
					h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.		
Mo.	1			1775, Boston besieged by American army.	4 59	6 54	1 49	7 15						22
Tu.	2			1863, Battle at Chancellorsville, Va.	4 58	6 55	2 19	8 2						6
W.	3			1861, Gen. Butler sent to Baltimore.	4 56	6 56	2 41	8 47						19
Th.	4			1863, Japan paid \$400,000 indemnity.	4 55	6 57	3 3	9 30						2
Fri.	5			1864, Butler defeated at Bermuda Hund.	4 54	6 58	3 24	10 13						15
Sat.	6			1844, Native American riots in Philada.	4 53	6 59	3 44	10 57						27
S.	7			1869, Union Pacific Railroad completed.	4 52	7 0	4 9	11 42						10
Mo.	8			1846, Gen. Taylor defeated Gen. Arista.	4 51	7 1	ris.	morn						22
Tu.	9			1777, Continental Congress met in Phila.	4 50	7 2	8 49	0 30						4
W.	10			1876, Centennial Exhibition opens.	4 49	7 3	9 47	1 20						16
Th.	11			1846, War declared against Mexico.	4 48	7 4	10 41	2 11						28
Fri.	12			1780, Charleston surrendered to the British.	4 47	7 5	11 28	3 3						10
Sat.	13			1783, Society of the Cincinnati founded.	4 46	7 6	morn	3 54						22
S.	14			1779, Norfolk plundered by the British.	4 45	7 6	0 6	4 43						4
Mo.	15			1836, Arkansas admitted into the Union.	4 44	7 7	0 37	5 30						16
Tu.	16			1863, Confederate steamer "Cuba" sunk.	4 43	7 8	1 4	6 15						28
W.	17			1607, Jamestown, Va., settled.	4 42	7 9	1 27	6 58						10
Th.	18			1863, Grant besieged Vicksburg.	4 41	7 10	1 49	7 41						23
Fri.	19			1775, Act of Union between States.	4 40	7 11	2 10	8 25						7
Sat.	20			1506, Christopher Columbus died.	4 39	7 12	2 33	9 11						21
S.	21			1864, Confeds. attacked Bermuda Hund.	4 38	7 13	2 59	10 1						5
Mo.	22			1862, McClellan crossed Chickahominy.	4 38	7 15	3 30	10 56						19
Tu.	23			1788, Constitution ratified by all the States.	4 37	7 15	sets.	11 57						4
W.	24			1872, Centennial Congr. Committee met.	4 36	7 16	9 10	1 2						19
Th.	25			1862, Ewell and Jackson attacked Banks.	4 36	7 17	10 15	2 10						4
Fri.	26			1863, U.S. gunboat "Cincinnati" destroyed.	4 35	7 18	11 7	3 15						19
Sat.	27			1847, Puebla, Mexico, surrendered.	4 35	7 19	11 47	4 16						4
S.	28			1856, Crampton (Br. envoy) dismissed.	4 34	7 19	morn	5 11						19
Mo.	29			1848, Wisconsin admitted into the Union.	4 34	7 20	0 19	6 0						2
Tu.	30			1498, Columbus began his third voyage.	4 34	7 21	0 45	6 46						16
W.	31			1862, Battle at Fair Oaks, Va.	4 34	7 22	1 8	7 29						29

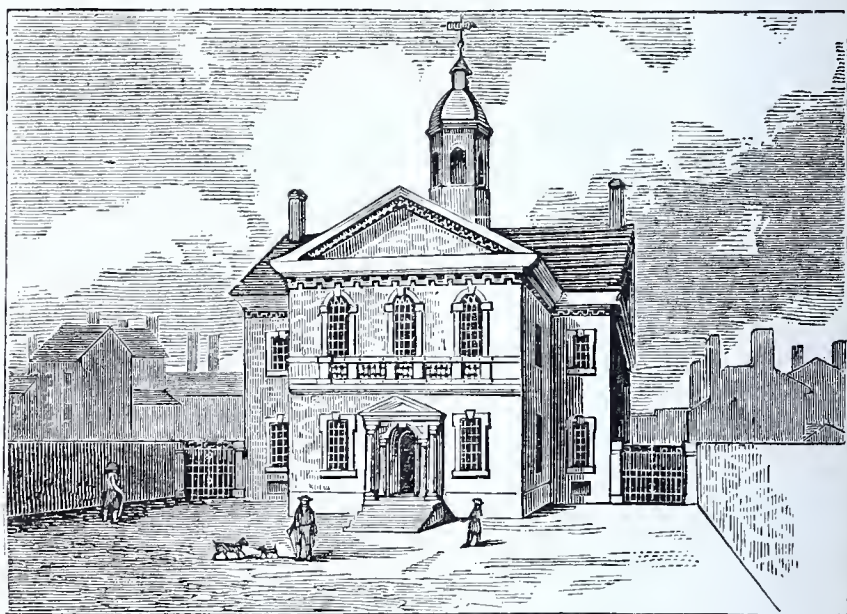
CONJECTURES OF THE WEATHER.

1, 2, pleasant; 3, 4, cloudy; 5, 6, 7, clear; 8, 9, 10, warm; 11, 12, 13, changeable; 14, 15, 16, clear; 17, 18, 19, cloudy; 20, 21, 22, 23, pleasant; 24, 25, 26, warm; 27, 28, rain; 29, 30, 31, fair.

JEWISH CALENDAR.

5636. May 8, Pesach Sheneh; 12, Lag B'Omer; 24, Rosh Chodesh Sivan; 29, 30, Shebuot.

CARPENTERS' HALL—1776.



This building has been kept in a good state of preservation, and stands at the end of Carpenters' Court, back from Chestnut street, between Third and Fourth. Originally constructed for the hall of meeting for the Society of House Carpenters of Philadelphia, it was taken and used by the *First Congress*, which met in Philadelphia to deliberate on the incipient measures of the War of the Revolution. Here it was that the groundwork of our Independence was laid, for on the 4th of September, 1774, after the attempt on the part of the mother country to tax the colonies without their consent, and the perpetration of numerous outrages, the sages of America came together to consider their grievances. The building was afterwards used for several years as the first Bank of the United States. It is now occupied and used only by the Carpenters' Society, and is open for visitors on week days between 10 A. M. and 3 P. M.

THE DECLARATION OF INDEPENDENCE

was written by Thomas Jefferson, at his private lodgings, in the the house still standing on the south-west corner of Market and Seventh streets. He says: "I rented the second floor, consisting of a parlor and bedroom ready furnished. In that parlor I wrote habitually, and in it wrote this paper particularly."

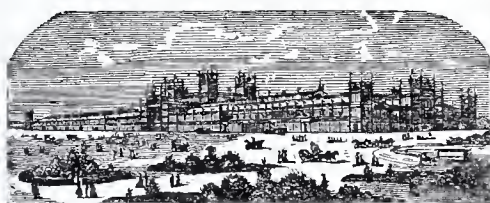
6th Month.]

JUNE, 1876.

[30 Days.

MOON'S PHASES.

D. H. M.
Full Moon..... 6 7 36, eve.
Last Quarter... 14 10 13, eve.
New Moon..... 21 5 10, aft.
First Quarter. 28 10 13, mo.



CENTENNIAL EXHIBITION.—MAIN BUILDING.

SUN FAST.

D.	M.	S.
1	2	48
5	2	34
9	1	26
13	0	0
17	1	0
21	1	58
25	2	0
29	2	49

EQUATION OF TIME.

Day of Week	D. of M.	AMERICAN HISTORICAL EVENTS.	Latitude of Middle States.						MOON'S PLACE.	S.	D.
			THE SUN Rises	h. m.	THE MOON Sets.	R & S.	Souths	h. m.			
Th.	1	1868, James Buchanan died.	4	33	7	22	1	30	8	12	12
Fri.	2	1863, Union forces left West Point, Va.	4	33	7	23	1	51	8	55	24
Sat.	3	1864, Battle at Cold Harbor, Va.	4	32	7	23	2	14	9	40	7
S.	4	1743, First Bible printed in America.	4	32	7	24	2	39	10	26	19
Mo.	5	1864, Battle of Piedmont, Va.	4	32	7	25	3	9	11	15	1
Tu.	6	1863, Priv. "Florida" cap. "Southern Cross"	4	32	7	25	rises.	morn			13
W.	7	1863, Battle at Cross Keys, Va.	4	31	7	26	8	36	0	6	25
Th.	8	1845, Andrew Jackson died.	4	31	7	26	9	23	0	58	7
Fri.	9	1778, French fleet under D'Estaing arrived	4	31	7	27	10	4	1	49	18
Sat.	10	1861, Union forces defeated at Gt. Bethel.	4	31	7	27	10	38	2	39	0
S.	11	1861, Lieut. Greble killed.	4	31	7	28	11	6	3	26	12
Mo.	12	1863, "The Corbella" destroyed.	4	31	7	28	11	31	4	11	24
Tu.	13	1864, Sanguinary battle at Cynthiana, Ky.	4	31	7	29	11	53	4	54	7
W.	14	1777, National Flag adopted by Congress.	4	31	7	29	morn	5	36		19
Th.	15	1849, James K. Polk died.	4	31	7	30	0	13	6	18	2
Fri.	16	1790, District of Columbia established.	4	31	7	30	0	33	7	2	15
Sat.	17	1775, Battle of Bunker Hill.	4	31	7	31	0	56	7	48	28
S.	18	1812, War declared against Great Britain.	4	31	7	31	1	24	8	40	13
Mo.	19	1864, "Kearsarge" sunk the "Alabama."	4	31	7	31	1	58	9	37	28
Tu.	20	1798, Fitch (inv. steam navigation) died.	4	31	7	31	2	42	10	40	13
W.	21	1869, 25th anniversary "Order of Druids."	4	31	7	31	sets.	11	47		28
Th.	22	1728, Oliver Evans (great inventor) born.	4	32	7	32	8	55	0	55	13
Fri.	23	1865, All U. S. ports declared open.	4	32	7	32	9	41	2	0	28
Sat.	24	1862, Commencement of Seven Days' fight	4	32	7	32	10	17	2	59	13
S.	25	1864, Battle of La Fayette, Tenn.	4	32	7	32	10	46	3	53	28
Mo.	26	1864, Battle at Kenesaw Mountain, Ga.	4	33	7	32	11	11	4	41	12
Tu.	27	1863, Meade commands Army of Potomac.	4	33	7	32	11	33	5	27	25
W.	28	1836, James Madison died.	4	34	7	32	11	55	6	10	8
Th.	29	1852, Henry Clay died.	4	34	7	32	morn	6	54		21
Fri.	30	1815, Treaty with Algiers signed.	4	35	7	32	0	17	7	38	4

CONJECTURES OF THE WEATHER.

1, 2, 3, clear; 4, 5, 6, warm; 7, 8, variable; 9, 10, 11, clear; 12, 13, 14, thunder-showers; 15, 16, 17, fair; 18, 19, 20, changeable; 21, 22, 23, warm; 24, 25, 26, pleasant; 27, 28, 29, 30, showers.

JEWISH CALENDAR.

5636. June 22, 23, Rosh Chodesh Tamooz.

INDEPENDENCE HALL—1776.



The Hall of Independence, on Chestnut street, between Fifth and Sixth, was commenced in 1729, and completed in 1734, having been designed for the use of the Provincial Assemblies; and the long hall formerly in the upper story was often used for grand official banquets given to Governors, distinguished strangers and generals, and to the members of the First Congress when they arrived in 1774. It was originally decorated with a stately steeple, which was taken down in 1774 on account of decay; only a small belfry was left to cover the bell until the year 1828, when the present steeple was erected as nearly like the ancient one as circumstances would permit. The ancient bell, formerly used for the clock, is remarkable for its prophetic inscription. Originally imported from England, in 1752, but cracked in its first ringing, it was recast in Philadelphia, and the inscription—"Proclaim Liberty throughout the land, and to all the people thereof,"—was placed upon it. This was more than twenty years before the independence of the Colonies was dreamed of; yet, when the Declaration was signed, this very bell was the first, by its merry peal, to "proclaim liberty throughout the land." It now occupies a place in the south vestibule of the building.—The Declaration of Independence was signed in the chamber on the left of the principal entrance. Some years since the antique architectural decorations and furniture of this room were removed, and their places supplied with new furniture and tapestry in modern style. This error has since been repaired, as far as possible, by restoring the Hall to its ancient appearance. The portraits of nearly every one of the signers now adorn the walls. Open daily.

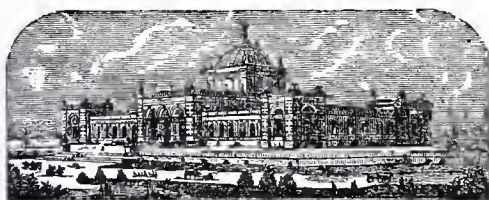
7th Month.]

JULY, 1876.

[31 Days.

MOON'S PHASES.

D. H. M.
Full Moon.... 6 10 37, mo.
Last Quarter... 14 8 55, mo.
New Moon.... 20 11 55, mo.
First Quarter.. 27 10 18, eve.



CENTENNIAL EXHIBITION.—MEMORIAL HALL.

SUN SLOW.

D.	M.	S.
1	4	20
5	4	59
9	5	24
13	6	2
17	6	40
21	7	4
25	7	12
29	7	20

EQUATION OF TIME.

Day
of
Week

D.
of
M.

AMERICAN HISTORICAL EVENTS.

Latitude of Middle States.

			THE SUN				THE MOON				MOON'S PLACE.	
			Rises	Sets.	R & S.	Souths	Rises	Sets.	R & S.	Souths	S	D
			h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.		
Sat.	1	1863, Battle of Gettysburg began.	4 35	7 32	0 41	8 24						16
S.	2	1775, Washington took command of army.	4 36	7 31	1 9	9 12						28
Mo.	3	1863, Vicksburg taken by Gen. Grant.	4 36	7 31	1 44	10 2						10
Tu.	4	1776, Declaration of Independence.	4 37	7 31	2 26	10 53						22
W.	5	1861, Confed. victory at Carthage, Mo.	4 38	7 31	3 13	11 45						4
Th.	6	1864, Gen. Early invaded Maryland.	4 38	7 31	riser.	morn						10
Fri.	7	1844, Native American riots in Philada.	4 39	7 30	8 40	0 35						27
Sat.	8	1778, Massacre at Wyoming Valley.	4 39	7 30	9 10	1 23						9
S.	9	1850, President Zachary Taylor died.	4 40	7 30	9 34	2 9						21
Mo.	10	1850, Great conflagration in Philada.	4 41	7 30	9 56	2 53						3
Tu.	11	1863, Confederates occupied Hagerstown.	4 41	7 29	10 17	3 34						16
W.	12	1767, John Quincy Adams born.	4 42	7 29	10 38	4 16						28
Th.	13	1874, Flood at Middlefield, Mass.	4 42	7 28	10 59	4 58						11
Fri.	14	1873, Great fire in Chicago.	4 43	7 28	11 23	5 42						24
Sat.	15	1863, Attempt on Boston arsenal by mob.	4 44	7 27	11 53	6 30						8
S.	16	1864, Confederates took Harper's Ferry.	4 45	7 26	morn	7 22						22
Mo.	17	1812, Indian massacre at Fort Mackinaw.	4 46	7 25	0 31	8 21						6
Tu.	18	1778, Evacuation of Philada. by British.	4 47	7 24	1 19	9 25						21
W.	19	1786, First steamer on Delaware River.	4 48	7 23	2 21	10 32						6
Th.	20	1864, Battle of Winchester, Va.	4 49	7 23	sets.	11 39						21
Fri.	21	1861, First Battle of Bull Run, Va.	4 50	7 22	8 12	0 42						7
Sat.	22	1861, McClellan took command of army.	4 50	7 22	8 43	1 39						22
S.	23	1793, Roger Sherman died.	4 51	7 21	9 11	2 31						6
Mo.	24	1862, Martin Van Buren died.	4 52	7 20	9 36	3 19						21
Tu.	25	1814, Battle of Lundy's Lane.	4 53	7 19	9 59	4 5						4
W.	26	1863, John J. Crittenden died.	4 54	7 18	10 19	4 49						17
Th.	27	1789, State Department established.	4 54	7 17	10 42	5 34						0
Fri.	28	1867, Atlantic Cable successfully laid.	4 55	7 16	11 14	6 20						12
Sat.	29	1719, William Penn died at London.	4 56	7 15	11 44	7 8						25
S.	30	1864, Chambersburg burned.	4 57	7 14	morn	7 58						7
Mo.	31	1873, Centennial Chemistry celebration.	4 58	7 13	0 22	8 49						19

CONJECTURES OF THE WEATHER.

1, 2, 3, pleasant; 4, 5, clear; 6, 7, 8, cloudy, with rain; 9, 10, fair; 11, 12, 13, thunder-showers; 14, 15, 16, warm; 17, 18, 19, 20, changeable; 21, 22, 23, clear; 24, 25, cloudy; 26, 27, rain; 28, 29, 30, 31, warm.

JEWISH CALENDAR.

5636. July 9, Fast of Tamooz; 22, Rosh Chodesh Ab; 30, Tishabeab.

NATIONAL MUSEUM.

The chamber on the right of the principal entrance to Independence Hall has been thoroughly renovated and repaired, and now contains the nucleus of a National Museum intended to occupy all the rooms of this building and the connecting wings. The chamber itself was formerly the Judicial Hall of the Colony of Pennsylvania, in which the sessions of the Supreme Court were held. Receptacle cases are already partially filled with relics and memorials of distinguished men of the period from 1682 to 1787, and with pamphlets, wearing apparel, newspapers, and everything illustrative of the daily life in America during the same period, while appropriate platforms are reserved to display furniture once in use by the patriots of that day. On the walls are displayed authentic portraits (originals or copies) of royal personages, generals, statesmen, and others connected with the early history of the country. Uniforms of the different arms of the service during the Revolution have been recently deposited, and frequent additions are made of pictures, autographs, and other articles that contribute to make the National Museum one of the most interesting places of resort in the city. Open, in fair weather, from 10 A. M. to 1 P. M.

HALL OF CONGRESS.

At the south-east corner of Sixth and Chestnut streets is located another important and interesting relic of the past. "In this building sat the first Senate and the first House of Representatives of the United States of America. Herein George Washington was inaugurated President, March 4th, 1793, and closed his official career, when herein also John Adams was inaugurated the second President, March 4th, 1797."—*Marble tablet on east wall of the building.*

FIRST PAPER MILL IN AMERICA.

The first paper mill in America of which there is any account was built by Wm. Rittinghuysen, a native of Broich, in Holland. In the year 1690 he, in company with Wm. Bradford, the printer, established a paper mill in Roxborough, near Philadelphia, on a stream called Paper Mill Run, which empties into the Wissahickon about two miles above its junction with the Schuylkill river. The paper was made from linen rags, the product of flax which was raised in the vicinity and made into wearing apparel. In 1699 William Bradford leased his fourth part of the mill to William and Nicholas Rittinghuysen (now spelled Rittenhouse) for a term of ten years, upon the following terms: That they should pay "ye full quantitee of seven ream of printing paper, two ream of good writing paper, and two ream of blue paper yearly."

The second mill in America was built at Germantown (now a part of Philadelphia), by William DeWees, a son-in-law of Rittinghuysen, in the year 1710.

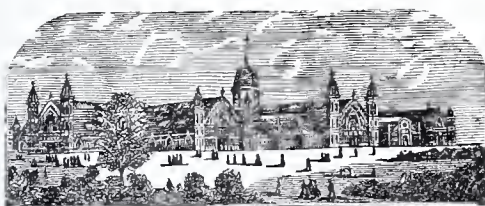
8th Month.]

AUGUST, 1876.

[31 Days.]

MOON'S PHASES.

D. H. M.	
Full Moon.....	5 1 27, mo.
Last Quarter...	12 4 58, aft.
New Moon....	19 7 25, eve.
First Quarter..	26 1 17, aft.



CENTENNIAL EXHIBITION — AGRICULTURAL HALL.

SUN SLOW.

D.	M.	S.
1	6	20
5	6	0
9	4	58
13	4	0
17	3	46
21	3	0
25	2	0
29	1	20

EQUATION OF TIME.

AMERICAN HISTORICAL EVENTS.

Day of Week	D. of M.	
Tu.	1	1863, Union army repulsed at Culpepper.
W.	2	1861, Crew of "Jeff. Davis" imprisoned.
Th.	3	1492, Columbus started on his first voyage.
Fri.	4	1864, National fast-day.
Sat.	5	1862, Battle at Baton Rouge, La.
S.	6	1862, Great explosion at Fort Lyon, Va.
Mo.	7	1789, War Department established.
Tu.	8	1862, Battle of South Mountain, Va.
W.	9	1864, Terrible explosion at City Point.
Th.	10	1821, Missouri admitted into the Union.
Fri.	11	1861, Confeds. attacked Gen. Lyon in Mo.
Sat.	12	1684, William Penn returned to England.
S.	13	1620, First cargo of Africans landed in Va.
Mo.	14	1813, Indian massacre at Fort Mimms.
Tu.	15	1824, La Fayette visited the United States.
W.	16	1777, Burgoyne defeated at Bennington.
Th.	17	1863, Battle at Sparta, Tenn.
Fri.	18	1864, Severe battle at Weldon Railroad.
Sat.	19	1780, De Kalb killed at Camden, S. C.
S.	20	1862, Confed. victory at Clarksville, Tenn.
Mo.	21	1815, Frigate Franklin (74 guns) launched.
Tu.	22	1862, Battle at Gallatin.
W.	23	1864, Battle at Fort Morgan, Ala.
Th.	24	1814, British entered Washington, D. C.
Fri.	25	1789, Death of Washington's mother.
Sat.	26	1863, Two U. S. transports captured.
S.	27	1776, British occupied New York city.
Mo.	28	1861, Battle at Fort Hatteras began.
Tu.	29	1863, Confederate victory at Groveton, Va.
W.	30	1863, 2d victory of Confeds. at Manassas.
Th.	31	1864, Battle at Jonesboro, Ga.

Latitude of Middle States.

THE SUN		THE MOON		MOON'S	
Rises.	Sets.	R & S.	Souths.	PLACE.	
h. m.	h. m.	h. m.	h. m.	S.	D.
4 59 7	13 1 8	9 40			1
5 07 12	2 2 10	31			12
5 17 11	3 1 11	20			24
5 27 10	rises.	morn			6
5 37 9	7 40	0 7			18
5 47 7	8 3	0 51			1
5 57 6	8 23	1 34			13
5 67 5	8 43	2 16			25
5 77 4	9 4	2 57			8
5 87 3	9 28	3 40			21
5 97 1	9 55	4 26			4
5 107 0	10 28	5 15			18
5 116 59	11 9	6 10			2
5 126 58	morn	7 10			16
5 136 56	0 3	8 14			1
5 146 55	1 10	9 19			15
5 156 53	2 27	10 23			0
5 166 52	3 49	11 22			15
5 176 51	sets.	0 17			0
5 186 49	7 35	1 07			15
5 196 48	7 58	1 55			29
5 206 46	8 22	2 41			12
5 216 45	8 46	3 27			26
5 226 43	9 11	4 13			8
5 226 42	9 42	5 1			21
5 236 40	10 19	5 51			3
5 246 39	11 3	6 42			15
5 256 37	11 54	7 34			27
5 266 36	morn	8 25			9
5 276 34	0 51	9 15			21
5 276 33	1 52	10 3			3

CONJECTURES OF THE WEATHER.

1, 2, 3, thunder-showers; 4, 5, 6, clear; 7, 8, variable; 9, 10, 11, warm and close; 12, 13, 14, fair; 15, 16, 17, changeable; 18, 19, 20, clear; 21, 22, 23, warm; 24, 25, 26, rain; 27, 28, 29, 30, 31, pleasant.

JEWISH CALENDAR.

5636. August 5, Tubaab; 20, 21, Rosh Chodesh Eloul.

HOTEL ACCOMMODATIONS DURING THE EXHIBITION.

The capacity of all the Hotels has been increased to the greatest extent, besides which numerous New Hotels of large dimensions are being erected; there is, therefore, no doubt that sufficient accommodations will be afforded all visitors to the City during the Centennial Year. The principal Hotels are the

AMERICAN.....	Chestnut above 5th.	MERCHANTS' HOUSE....	415 North Third.
ALLEGHENY.....	814 Market.	MERCHANTS' HOTEL....	4th above Market.
ARCH STREET HOME.....	1 Arch St.	NEW HOTEL, S.W. Cor.	Broad & Walnut.
BINGHAM.....	Cor. 11th & Market.	do	Diamond & 17th Sts.
COLONADE.....	Cor. 15th & Chestnut.	do	1526 Chestnut St.
CONTINENTAL, S. E. Cor.	9th & Chestnut.	PETRY'S.....	1403 Walnut St.
COMMERCIAL.....	826 Market St.	PENN MANOR, Cor. 8th &	Spring Garden.
CENTRAL AVENUE.....	831 Market.	REVERE.....	923 Chestnut.
COLUMBIA.....	111 North Broad.	RIDGWAY.....	1 Market St.
EUROPEAN.....	315 Arch St.	RED LION.....	Second below Noble.
EAGLE.....	227 N. Third.	ST. CLOUD.....	Arch above 7th.
GIRARD.....	N. E. Cor. 9th & Chestnut.	ST. STEPHEN'S.....	Chestnut above 10th.
GUY'S.....	Cor. Seventh & Chestnut.	ST. JAMES'.....	304 Arch St.
*GLOBE.....	Belmont and Elm Avenues.	ST. ELMO.....	317 Arch St.
GRAND UNION, Mervine, 11th &	Somerset.	ST. CHARLES'.....	54 North Third.
GREAT WESTERN.....	1311 Market St.	*TRANSCONTINENTAL....	Belmont & Elm
IRVING.....	919 Walnut.	Avenues.	
LAPIERRE.....	Broad & Chestnut.	*UNITED STATES....	43d & Columbia Ave.
MARKOE.....	919 Chestnut.	WASHINGTON.....	709 Chestnut.

* Near Exhibition Grounds. Besides these, several others are projected in the same vicinity, and will be ready to receive guests at the opening of the Exhibition.

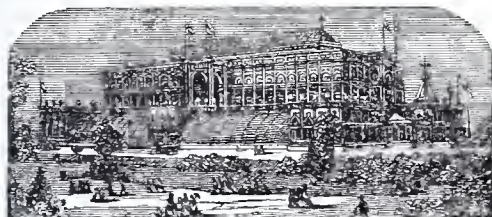
PRINCIPAL THEATRES AND MUSIC HALLS.

American Academy of Music, South Broad street, corner of Locust.
Arch Street Theatre, Arch street, between Sixth and Seventh.
Arch Street Opera House, Arch street, between Tenth and Eleventh.
Assembly Buildings, corner of Tenth and Chestnut streets.
Amateur Drawing Room, Seventeenth street, bet. Market and Chestnut.
Chestnut Street Theatre, Chestnut street, bet. Twelfth and Thirteenth.
Concert Hall, Chestnut street, between Twelfth and Thirteenth.
Eleventh Street Opera House, Eleventh street, bet. Market and Chestnut.
Fox's New American Theatre, Chestnut street, bet. Tenth and Eleventh.
Grand Central Theatre, Walnut street, between Eighth and Ninth.
German Theatre, Callowhill street, between Fourth and Fifth.
Horticultural Hall, South Broad street, above Spruce.
Musical Fund Hall, Locust street, between Eighth and Ninth.
Mænnerchor Music Hall and Garden, cor. Fairmount ave. and Franklin st.
St. James' Theatre, corner of Tenth and Callowhill streets.
Walnut Street Theatre, corner of Walnut and Ninth streets.
Wood's Museum and Theatre, corner of Arch and Ninth streets.

9th Month.] SEPTEMBER, 1876. [30 Days.

MOON'S PHASES.

D.	H.	M.
Full Moon....	3	4 12, aft.
Last Quarter...	10	11 20, eve.
New Moon....	17	4 53, aft.
First Quarter...	25	7 2, mo.



CENTENNIAL EXHIBITION.—HORTICULTURAL HALL.

SUN FAST.

D.	M.	S.
1	0	40
5	1	52
9	2	49
13	3	59
17	4	47
21	7	0
25	9	58
29	10	0

EQUATION OF TIME.

Day of Week	D. of M.	AMERICAN HISTORICAL EVENTS.	Latitude of Middle States.							
			THE SUN		THE MOON		R & S. Souths		MOON'S PLACE.	
			Rises	Sets.	R	S.	h.	m.	S.	D.
Fri.	1	1635, First Grand Jury met in America.	5 28	6 31	2 56	10 48				15
Sat.	2	1789, Treasury Department established.	5 29	6 30	4 1	11 32				27
S.	3	1783, Treaty of American Indepen. signed.	5 30	6 28	ris.	morn				10
Mo.	4	1735, John Wesley visited Georgia.	5 31	6 27	6 50	0 14				22
Tu.	5	1774, First American Congress met.	5 32	6 25	7 11	0 56				5
W.	6	1757, La Fayette born.	5 33	6 24	7 32	1 39				18
Th.	7	1781, Burning of New London by British.	5 34	6 22	7 57	2 24				1
Fri.	8	1847, Gen. Scott cap. El Morina del Rey.	5 35	6 20	8 28	3 13				15
Sat.	9	1850, Territory of Utah organized.	5 36	6 19	9 7	4 5				29
S.	10	1813, British fleet surrender at Lake Erie.	5 36	6 17	9 57	5 3				13
Mo.	11	1777, Battle of Brandywine.	5 37	6 16	10 57	6 4				27
Tu.	12	1814, The British landed at North Point.	5 38	6 14	morn	7 7				11
W.	13	1814, British defeated at Fort McHenry.	5 39	6 12	0 8	8 10				25
Th.	14	1847, Gen. Scott entered City of Mexico.	5 40	6 10	1 25	9 9				10
Fri.	15	1777, Battle of Germantown.	5 41	6 9	2 45	10 4				24
Sat.	16	1787, Constitution presented to Congress.	5 42	6 7	4 2	10 55				9
S.	17	1862, Battle of Antietam. [of the Capitol.	5 43	6 5	sets.	11 44				23
Mo.	18	1793, Pres. Washington laid corner-stone	5 44	6 3	6 23	0 30				7
Tu.	19	1777, Congress met at Lancaster, Penna.	5 45	6 2	6 46	1 17				20
W.	20	1862, Battle of Iuka.	5 46	6 0	7 10	2 4				4
Th.	21	1861, Confed. victory at Lexington, Mo.	5 47	5 59	7 40	2 52				16
Fri.	22	1789, Post-office Department established.	5 48	5 57	8 16	3 42				29
Sat.	23	1701, Charter granted by Penn to Phila.	5 49	5 55	8 58	4 33				11
S.	24	1781, Allied troops besieged Yorktown, Va.	5 50	5 54	9 45	5 26				23
Mo.	25	1493, Columbus again sailed for America.	5 51	5 52	10 40	6 17				5
Tu.	26	1831, Anti-Masonic convention at Balt.	5 52	5 51	11 39	7 8				17
W.	27	1862, Writ of Habeas Corpus suspended.	5 53	5 49	morn	7 56				29
Th.	28	1813, Detroit invested by the British.	5 54	5 47	0 42	8 42				11
Fri.	29	1864, Battle at Pilot Knob, Mo.	5 55	5 45	1 47	9 26				23
Sat.	30	1851, Girard buried at Girard College.	5 56	5 44	2 51	10 9				5

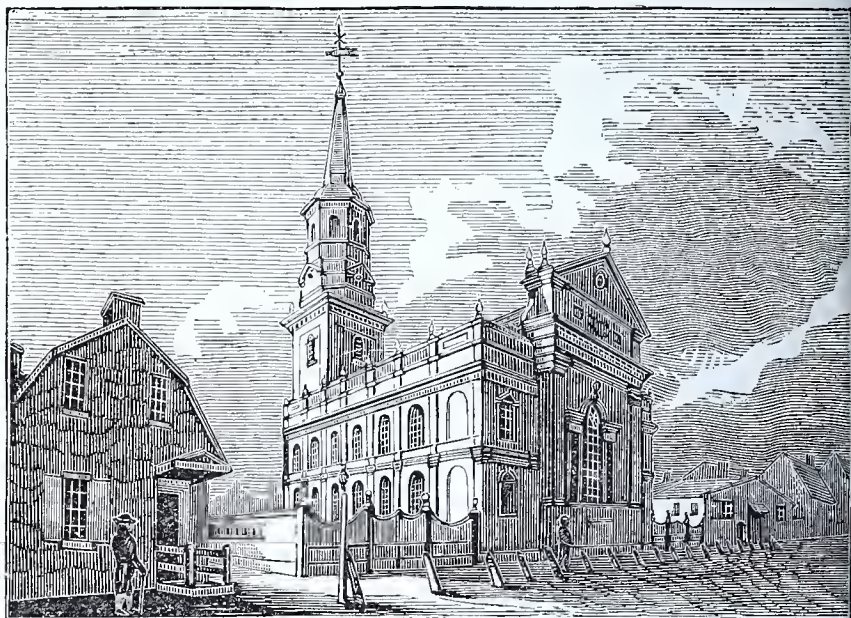
CONJECTURES OF THE WEATHER.

1, 2, cloudy; 3, 4, clear; 5, 6, 7, warm; 8, 9, 10, changeable; 11, 12, 13, pleasant; 14, 15, 16, fair; 17, 18, 19, cloudy; 20, 21, 22, clear; 23, 24, 25, 26, variable; 27, 28, warm; 29, 30, windy.

JEWISH CALENDAR.

5636. September 19, 20 (1 and 2 Tishree), 5637. Rosh Hashanah; 21, Fast of Gedalyah; 28, Jom Kipoor.

CHRIST CHURCH—1776.



This venerable edifice, located on Second street, above Market, was constructed at various periods reaching from 1727 to 1753. It occupies the site of a frame church building, which had been erected in 1695, the first in the Province of Pennsylvania. The tower originally contained a clock, and a bell which struck the hours. The present steeple, of peculiar beauty of symmetry and grace, was finished in November, 1754,—its height is 196 feet 8 inches. The chime of eight bells was purchased in England, and is the oldest in America. They were rung at the Declaration of Independence. In 1777 they were taken down and removed to Allentown, to prevent their falling into the hands of the British, and returned and rehung after the evacuation of the city. The ancient Communion Service was presented by Queen Anne, in 1708. The Rev. William White, ordained in England, in 1770, officiated as Assistant Minister until, in 1779, he was appointed Rector of Christ Church and St. Peter's. He was Chaplain to Congress during the Revolution. In 1786 he was elected Bishop of Pennsylvania.

It is the architectural style and arrangements of the interior of Christ Church which give it a peculiar claim to public regard, as an elegant relic of the olden time. To it went all the Colonial Governors and other officers of State, with their families. There went Washington and Franklin, and their families. Perhaps no building in the city can be viewed with greater interest than this.

10th Month.] OCTOBER, 1876.

[31 Days.

MOON'S PHASES.

D. H. M.
Full Moon.... 3 5 55, mo.
Last Quarter.. 5 19, mo.
New Moon.... 17 4 56, mo.
First Quarter.. 25 2 53, mo.



CENTENNIAL EXHIBITION.—MACHINERY HALL.

SUN FAST.

D.	M.	S.
1	11	0
5	11	48
9	12	54
13	13	52
17	14	58
21	15	44
25	16	0
29	16	5

EQUATION OF TIME.

Day of
Week

D.
M.

AMERICAN HISTORICAL EVENTS.

Latitude of Middle States.

THE SUN Rises	SUN Sets	THE MOON R & S. Souths	MOON'S PLACE.	S.	D.
h. m.	h. m.	h. m.	h. m.		
5 57	5 42	3 55	10 52		18
5 58	5 40	4 59	11 35		1
5 59	5 38	risen.	morn		14
6 0	5 37	6 1	0 20		28
6 1	5 35	6 31	1 8		12
6 2	5 34	7 7	2 0		25
6 3	5 32	7 54	2 57		9
6 4	5 31	8 51	3 58		24
6 5	5 29	9 58	5 1		8
6 6	5 28	11 12	6 3		22
6 7	5 26	morn	7 2		6
6 8	5 25	0 28	7 57		20
6 9	5 23	1 44	8 48		4
6 10	5 22	2 57	9 36		18
6 11	5 20	4 8	10 22		2
6 13	5 19	5 17	11 8		15
6 14	5 17	sets.	11 54		29
6 15	5 16	5 39	0 42		12
6 16	5 14	6 11	1 32		24
6 17	5 13	6 50	2 23		7
6 18	5 11	7 36	3 16		19
6 19	5 10	8 29	4 8		1
6 20	5 9	9 28	4 59		13
6 21	5 7	10 29	5 49		25
6 22	5 6	11 31	6 35		7
6 23	5 4	morn	7 20		19
6 24	5 3	0 35	8 2		1
6 25	5 2	1 38	8 44		13
6 26	5 1	2 42	9 27		26
6 28	4 59	3 47	10 11		9
6 29	4 58	4 55	10 59		23

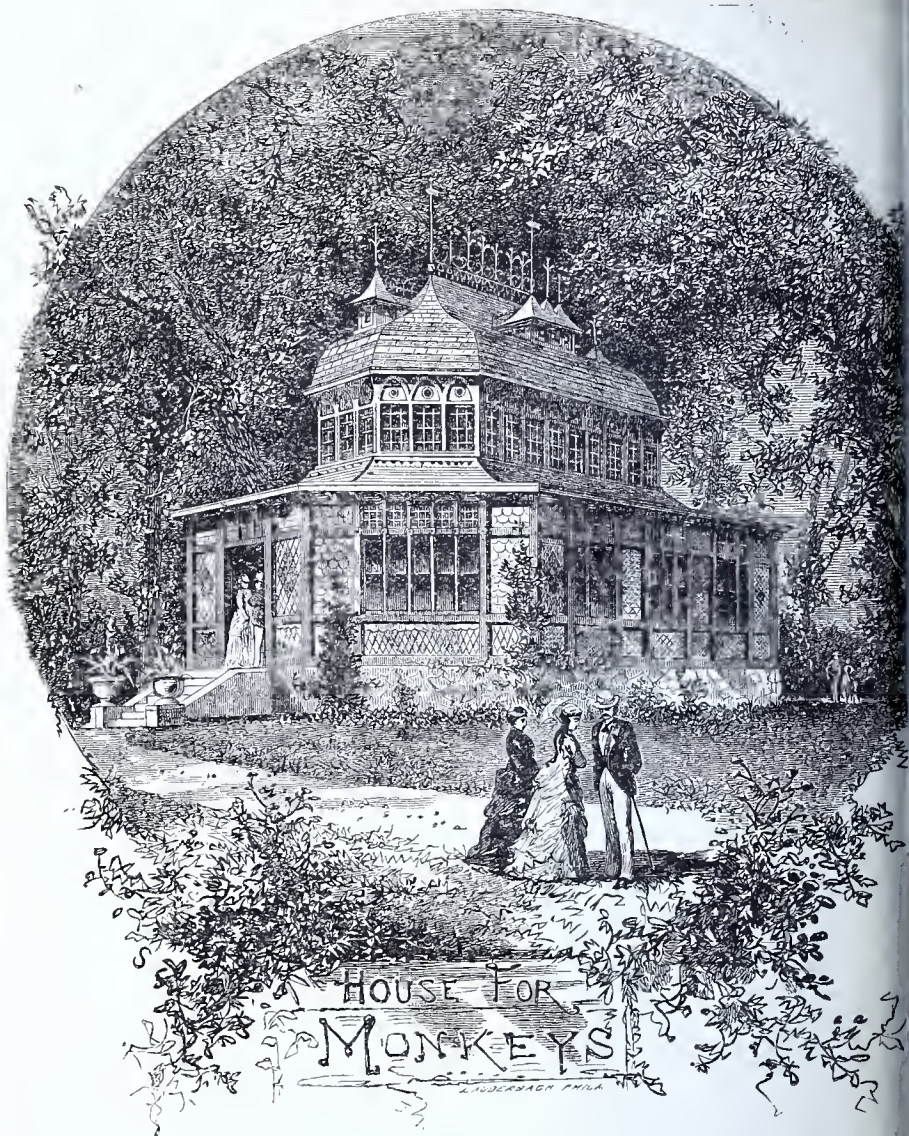
S.	1	1862, Internal Rev. Act went into effect.
Mo.	2	1780, Maj. John Andre hung as a spy.
Tu.	3	1862, Battle at Corinth, Miss
W.	4	1774, Battle at Germantown, Pa.
Th.	5	1813, The British routed on Thames River.
Fri.	6	1863, Battle at Shelbyville, Tenn.
Sat.	7	1776, Defeat of the British at Stillwater.
Mo.	8	1870, Franklin Pierce died.
Tu.	9	1839, Banks suspended specie payment.
W.	10	1860, Prince of Wales visited the U. S.
Th.	11	1492, Bahama Islands discovered.
Fri.	12	1856, Ship "Cathedral" came to Philada.
Sat.	13	1870, Gen. Robert E. Lee died.
S.	14	1664, William Penn born in London, Eng.
Mo.	15	1763, John Jacob Astor born.
Tu.	16	1859, John Brown's raid at Harper's Ferry.
W.	17	1777, Burgoyne surrendered at Saratoga.
Th.	18	1862, Battle at Lexington, Ky.
Fri.	19	1781, Cornwallis surrendered at Yorktown.
Sat.	20	1861, Battle at Ball's Bluff, Va.
S.	21	1777, Battle at Red Bank, N. J.
Mo.	22	1820, Florida ceded to U. S. by Spain.
Tu.	23	1863, Mexican ports blockaded.
W.	24	1852, Daniel Webster died.
Th.	25	1812, Decatur captured the "Macedonian."
Fri.	26	1683, Roger Williams died.
Sat.	27	1492, Island of Cuba discovered.
S.	28	1776, Battle of White Plains, N. Y.
Mo.	29	1863, Battle at Tolanda, Miss.
Tu.	30	1735 John Adams born.
W.	31	1861, Gen. Scott resigned his commission.

CONJECTURES OF THE WEATHER.

1, 2, 3, clear; 4, 5, 6, rain; 7, 8, warm; 9, 10, 11, changeable; 12, 13, 14, fair; 15, 16, 17, pleasant; 18, 19, 20, balmy; 21, 22, 23, cool; 24, 25, 26, 27, rain; 28, 29, clear; 30, 31, frosty.

JEWISH CALENDAR.

5637. October 3, 4, Succoth, first two days; 9, Hoshanah Rabah; 10, Shemini Assret; 11, Simchat Torah; 18, 19, Rosh Cheshvan



THE GARDEN OF THE ZOOLOGICAL SOCIETY OF PHILADELPHIA
 Occupies thirty acres in Fairmount Park on the Western Bank of the Schuylkill river, immediately south of Girard Avenue Bridge. The grounds are handsomely laid out, the buildings airy and commodious, while the collection of Animals, Birds and Reptiles is the largest and most varied in America. Open every day; Admission, Adults 25 cents, Children 10 cents.

11th Month.] NOVEMBER, 1876. [30 Days.

MOON'S PHASES.

D. H. M.
Full Moon..... 1 6 30, eve.
Last Quarter... 8 0 16, aft.
New Moon..... 15 7 47, eve.
First Quarter.. 23 11 25, eve.



SUN FAST.

D.	M.	S.
1	16	0
5	16	0
9	15	54
13	15	0
17	14	58
21	14	0
25	13	0
29	11	18

EQUATION OF TIME.

Day of Week	D. of M.	AMERICAN HISTORICAL EVENTS.	Latitude of Middle States.									
			THE SUN		THE MOON		R & S.		Souths		MOON'S PLACE.	
			Rises	Sets.	R	S.	h.	m.	h.	m.	S.	D.
W.	1	1794, William Cullen Bryant born.	6 30	4 57	6 6	11 50						7
Th.	2	1863, Confeds. cap. cars at Mayfield, Ky.	6 31	4 56	rises.	morn						21
Fri.	3	1783, American army disbanded.	6 32	4 55	5 47	0 47						5
Sat.	4	1869, Geo. Peabody died. [Tippecanoe.	6 34	4 53	6 42	1 48						20
S.	5	1811, Indians defeated by Gen. Harrison at	6 35	4 52	7 50	2 52						4
Mo.	6	1872, Gen. G. G. Meade died.	6 36	4 51	9 4	3 56						19
Tu.	7	1861, Mason and Slidell captured at sea.	6 37	4 50	10 20	4 57						3
W.	8	1865, Tunis Embassy visited the U. States.	6 38	4 49	11 35	5 54						17
Th.	9	1872, Great fire at Boston, Mass.	6 40	4 49	morn	6 45						1
Fri.	10	1876, Centennial Exhibition closes	6 41	4 48	0 47	7 33						15
Sat.	11	1863, Govt. informed of a plot in Canada.	6 42	4 47	1 57	8 19						28
S.	12	1864, Sherman's march to the sea begun.	6 43	4 46	3 5	9 4						11
Mo.	13	1862, Burnside defeated at Fredericksb'g.	6 44	4 45	4 13	9 49						24
Tu.	14	1868, Brilliant meteoric shower observed.	6 46	4 44	5 21	10 35						7
W.	15	1777, "Mud Fort," Red Bank, evacuated.	6 47	4 43	6 28	11 23						20
Th.	16	1776, Capture of Fort Washington, N. Y.	6 48	4 42	sets.	0 14						2
Fri.	17	1800, Removal of Capital to Washington.	6 49	4 41	5 30	1 6						15
Sat.	18	1863, Opening of Atl. and Gt. West. R.R.	6 50	4 41	6 20	1 59						27
S.	19	1863, Gettysburg Cemetery consecrated.	6 51	4 40	7 16	2 51						9
Mo.	20	1808, Zeissberger, Indian missionary, died.	6 52	4 40	8 17	3 41						21
Tu.	21	1861, Banks suspended specie payments.	6 53	4 39	9 20	4 29						3
W.	22	1804, Franklin Pierce born,	6 54	4 38	10 22	5 13						15
Th.	23	1863, Chief Justice Marshall died.	6 55	4 38	11 25	5 36						27
Fri.	24	1784, Zachary Taylor born.	6 57	4 37	morn	6 37						9
Sat.	25	1783, Evacuation of New York by British.	6 58	4 37	0 26	7 19						21
S.	26	1863, Mosby cap. trains at Brandy Station.	6 59	4 36	1 29	8 1						4
Mo.	27	1863, Gen. Morgan escaped from prison.	7 0	4 36	2 34	8 46						17
Tu.	28	1776, Washington crossed the Delaware.	7 1	4 36	3 42	9 35						1
W.	29	1802, Ohio admitted into the Union.	7 2	4 35	4 55	10 30						15
Th.	30	1864, Battle at Franklin, Tenn.	7 3	4 35	6 12	11 30						29

CONJECTURES OF THE WEATHER.

1, 2, changeable; 3, 4, 5, clear; 6, 7, 8, rain; 9, 10, 11, fair; 12, 13, cold; 14, 15, 16, cloudy; 17, 18, 19, pleasant; 20, 21, 22, 23, cold; 24, 25, 26, variable; 27, 28, clear; 29, 30, rain.

JEWISH CALENDAR.

5637. November 17, Rosh Chodesh Kis'ev.

AGRICULTURE AT THE CENTENNIAL.

The following extracts from the report of the Commissioner of Agriculture will show some of the preparations made by his Department for the exhibition. The statistical division will prepare a series of outline maps, diagrams and charts to illustrate the changes in production and the geographical distribution of the principal crops, for the National Centennial Exhibition; and the statistician will present a statistical report of the agricultural progress of the past century.

The botanical division has been making preparations to exhibit specimens of all the forest trees of the country at the approaching Centennial.

Preparation is being made in the pomological division for a collection, which will embrace models of fruits and vegetables grown in the United States, and a collection of grains, cereals, seeds, nuts, animal and vegetable fibres, and the manufactures, such as wools, silks, ramie, cotton, flax, hemp, jute, &c. In the ornithological and natural history collection it is proposed to show such of our native birds and animals as are peculiarly beneficial and injurious; the different varieties of our gallinaceous birds in their true breeds, together with the new varieties recently introduced. In entomology it is proposed to show a collection of beneficial and injurious insects arranged, together with a complete set of engravings of the most common destructive and useful insects of the country.

A large collection of American species of fungi of the order of *Agaricini* has been made for the purpose of making known more generally the distinguishing characteristics of those which are edible and such as are poisonous. Since many thousand dollars are expended annually in the United States for the purchase of imported compounds of edible mushrooms, it is deemed important to prepare and publish such information as may lead to a scientific cultivation of all the edible species in this country. Considerable time has been devoted to the collection of leading types of other families of parasitic fungi destructive to cultivated plants, several hundreds of which have been carefully and artistically drawn in natural colors, the species having been fully identified and the names given by high authority in this country and Europe.

STATISTICS OF PHILADELPHIA IN 1875.

The British Consul, Mr. Kortright, in his commercial reports, says that Philadelphia has a population of nearly 800,000, and it lives in an area of $129\frac{1}{3}$ square miles. The city has 1000 miles of streets and roads opened for use, and over 500 of these are paved. It is lighted by nearly 10,000 gas lamps. The earth beneath conceals and is penetrated by 134 miles of sewers, over 600 miles of gas mains and 546 miles of water pipes. It has over 212 miles of city railways, and 1794 city railroad cars passing over these railroads daily; 3025 steam boilers; over 400 public schools, with suitable buildings, and over 1600 school teachers, and over 80,000 pupils. It has over 34,000 bath-rooms, most of which are supplied with hot water, and for the use of the water at low rates the citizens pay more than a half million of dollars; it has over 400 places of public worship and accommodation in them for 300,000 persons; it has nearly 9000 manufactories, with a capital of \$185,000,000, employing 145,000 hands, the annual product of whose labor is over \$384,000,000. It exported in 1873 in value over \$24,000,000, and imported in value over \$26,000,000; the amount for duties in gold was nearly \$8,500,000; the real estate, as assessed for taxation, was over \$585,000,000, and there was collected nearly \$9,000,000 for taxes.

12th Month.] DECEMBER, 1876. [31 Days.

MOON'S PHASES.

	D.	H.	M.
Full Moon.....	1	6	3, mo.
Last Quarter....	7	9	22, eve.
New Moon.....	15	1	13, aft.
First Quarter..	23	6	49, eve.
Full Moon.....	30	4	58, aft.



SUN FAST.	D.	M.	S.
1	10	0	
5	9	0	
9	7	14	
13	5	26	
17	2	59	
21	1	0	
SUN SLOW.	1	0	
25	1	0	
29	3	0	

EQUATION OF TIME.

Day of Week D. of M.

AMERICAN HISTORICAL EVENTS.

Fri.	1	1700, William Penn arrived in Philada.
Sat.	2	1859, John Brown executed.
S.	3	1818, Illinois admitted into the Union.
Mo.	4	1783, Washington took final leave of army.
Tu.	5	1782, Martin Van Buren born.
W.	6	1773, Tea destroyed in Boston harbor.
Th.	7	1873, Seth Adams (inventor) died.
Fri.	8	1873, Prof. Agassiz died.
Sat.	9	1807, American ports closed to the British.
S.	10	1863, Mr. Foote denounced Jeff. Davis.
Mo.	11	1816, Indiana admitted into the Union.
Tu.	12	1786, William L. Marcy born.
W.	13	1796, Gen. Anthony Wayne died.
Th.	14	1799, George Washington died.
Fri.	15	1814, The "Hartford Convention" met.
Sat.	16	1863, Explosion and fire at Yorktown, Va.
S.	17	1863, Confederate victory, Ft. Gibson, Ark.
Mo.	18	1823, Richard M. Hoe died.
Tu.	19	1813, Fort Niagara (N. Y.) captured.
W.	20	1620, Pilgrims settled at Plymouth, Mass.
Th.	21	1864, Savannah (Ga.) captured.
Fri.	22	1864, St. Alban's (Vt) raiders captured.
Sat.	23	1783, Washington resigned command.
S.	24	1851, Louis Kossuth visited America.
Mo.	25	1814, Treaty of Ghent.
Tu.	26	1776, Hessians defeated at Trenton, N. J.
W.	27	1863, Gen. Johnston took command in Ga.
Th.	28	1846, Iowa admitted into the Union.
Fri.	29	1808, Andrew Johnson born.
Sat.	30	1835, Soldiers massacred by Indians in Fla.
S.	31	1835, Florida Indians subdued.

Latitude of Middle States.

THE SUN	THE MOON	MOON'S
Rises	R & S.	PLAC.
h. m. h. m.	h. m.	S. D.
7 44 35	4 48	morn 14
7 54 35	5 32	0 35 29
7 64 35	6 46	1 41 14
7 74 34	8 6	2 46 29
7 84 34	9 23	3 46 13
7 94 34	10 38	4 41 28
7 104 34	11 49	5 31 12
7 114 34	morn	6 18 25
7 124 34	0 57	7 3 8
7 134 34	2 4	7 47 21
7 144 34	3 12	8 32 4
7 154 34	4 19	9 19 17
7 154 35	5 25	10 8 29
7 164 35	6 30	11 0 11
7 174 36	sets.	11 52 24
7 174 36	5 8	0 45 6
7 184 36	6 8	1 35 18
7 184 37	7 11	2 24 0
7 194 37	8 13	3 9 12
7 194 38	9 14	3 52 23
7 194 38	10 16	4 33 5
7 204 39	11 16	5 14 17
7 204 39	morn	5 54 29
7 214 40	0 17	6 37 12
7 214 40	1 22	7 22 25
7 214 41	2 31	8 13 9
7 224 42	3 44	9 9 23
7 224 42	5 0	10 11 7
7 234 43	6 16	11 17 22
7 234 43	rises.	morn 7
7 234 44	5 37	0 25 22

CONJECTURES OF THE WEATHER.

1, 2, 3, cold; 4, 5, 6, snow; 7, 8, 9, clear; 10, 11, 12, changeable; 13, 14, pleasant; 15, 16, 17, cold; 18, 19, 20, rain; 21, 22, 23, clear; 24, 25, variable; 26, 27, 28, snow; 29, 30, 31, clear and cold.

JEWISH CALENDAR.

5637. December 4, Barech Alenu; 11, Chanukah, first day; 16, 17, Rosh Chodesh Tebet; 26, Fast of Tebeth.

ARRANGEMENTS FOR THE CENTENNIAL EXHIBITION.

The Act of Congress which provided for "celebrating the one hundredth Anniversary of American Independence, by holding an International Exhibition of Arts, Manufactures and Products of the Soil and Mine," authorized the creation of the United States Centennial Commission, and entrusted to it the management of the exhibition. This body is composed of two Commissioners from each State and Territory, nominated by the respective governors, and commissioned by the President of the United States. The enterprise, therefore, is distinctly a national one, and not, as has sometimes been stated, the work of a private corporation.

The exhibition will be opened on May 10, 1876, and remain open every day, except Sunday, until November 10. There will be a fixed price of fifty cents for admission to all the buildings and grounds.

The Centennial grounds are situated on the western banks of the Schuylkill River, and within Fairmount Park, the largest public park in proximity to a great city in the world, and one of the most beautiful in the country. The park contains 3,000 acres, 450 of which have been enclosed for the exhibition. Besides this tract, there will be large yards near by for the exhibition of stock, and a farm of 40 acres has already been suitably planted for the test of plows, mowers, reapers and other agricultural machinery.

The exhibition buildings are approached by eight lines of street cars, which connect with all the other lines in the city, and by the Pennsylvania and Reading Railroads over the track of which trains will also run from the North Pennsylvania and Philadelphia, Wilmington and Baltimore Railroads. Thus the exhibition is in immediate connection with the entire railroad system of the country, and any one within 90 miles of Philadelphia can visit it at no greater cost than that of earriage hire at the Paris or Vienna Exhibition.

The articles to be exhibited have been classified in seven departments, which for the most part, will be located in appropriate buildings, whose several areas are as follows:

DEPARTMENT.	BUILDINGS.	Acres Covered.
1. Mining and Metallurgy,.....	Main Building,.....	21.47
2. Manufactures,.....		
3. Education and Science,.....		
4. Art,.....	Art Gallery,.....	1.5
5. Machinery,.....	Machinery Building,.....	14.
6. Agriculture,.....	Agricultural Building,.....	10.
7. Horticulture,.....	Horticultural Building,.....	1.5
Total.....		48.47

An important special exhibition will be made by the United States Government, and is being prepared under the supervision of a Board of Officers representing the several executive departments of the government. A fine building of 4½ acres is provided for the purpose, space in which will be occupied by the War, Treasury, Navy, Interior, Post Office, and Agricultural Departments, and the Smithsonian Institution.

The list of special buildings is constantly increasing, and present indications are that their total number will be from 200 to 250. Most of the important foreign nations are putting up one or more structures each, for exhibiting purposes, or for the use of the commissioners, exhibitors and visitors. Offices and headquarters of this kind, usually of considerable architectural beauty, are provided by Several States, and it is likely that others will follow the example.



A number of Trade and Industrial Associations, which require large amounts of space, will be provided for in special buildings.

The Machinery Building, like the others, is already fully covered by applications. There are about 1,000 American exhibitors in this department, 150 English and 150 from other European countries—which is about 250 more than entered the Vienna Machinery Exhibition.

Power in the Machinery Hall will be chiefly supplied by a pair of monster Corliss engines. Each cylinder is 40 inches in diameter, with a stroke of ten feet; the fly wheel is thirty-one feet in diameter, and weighs 55 tons; the horse power is 1,400, and the number of boilers is twenty. This engine drives about a mile of shafting.

For the Art Exhibition, the most eminent American artists are understood to be at work, and it may be confidently stated that, especially in the department of landscape painting, the United States will present a finer display than the public has been led to expect. Quite aside from the contributions of American artists, applications from abroad call for more than four times the exhibiting space afforded by the great Memorial Hall. Provision for the surplus will be made in temporary fire-proof buildings, though all exhibiting nations will be represented in the Central Art Gallery.

Mr. Bell, the eminent English sculptor, who designed the groups for the plinth for the great Albert Memorial in Hyde Park, London, is reproducing in terra cotta, at the celebrated works in Lambeth, the one which symbolizes America. The figures in this group are colossal, covering a ground space of fifteen feet square. It will probably be placed in the great central gallery, opposite the principal entrance.

The Art Exhibition will include, in addition to the works of contemporary artists, representative productions of the past century of American art—those, for instance, of Stuart, Copley, Trumbull, West, Alston, Sully, Neagle, Elliot, Kensett, Cole. These, as well as the works offered by living artists, will be passed upon by the Committee of Selection, who will visit for the purpose New York, Boston, Chicago, and other leading cities, in order to prevent the needless transportation to Philadelphia of works of art not up to the standard of admission.

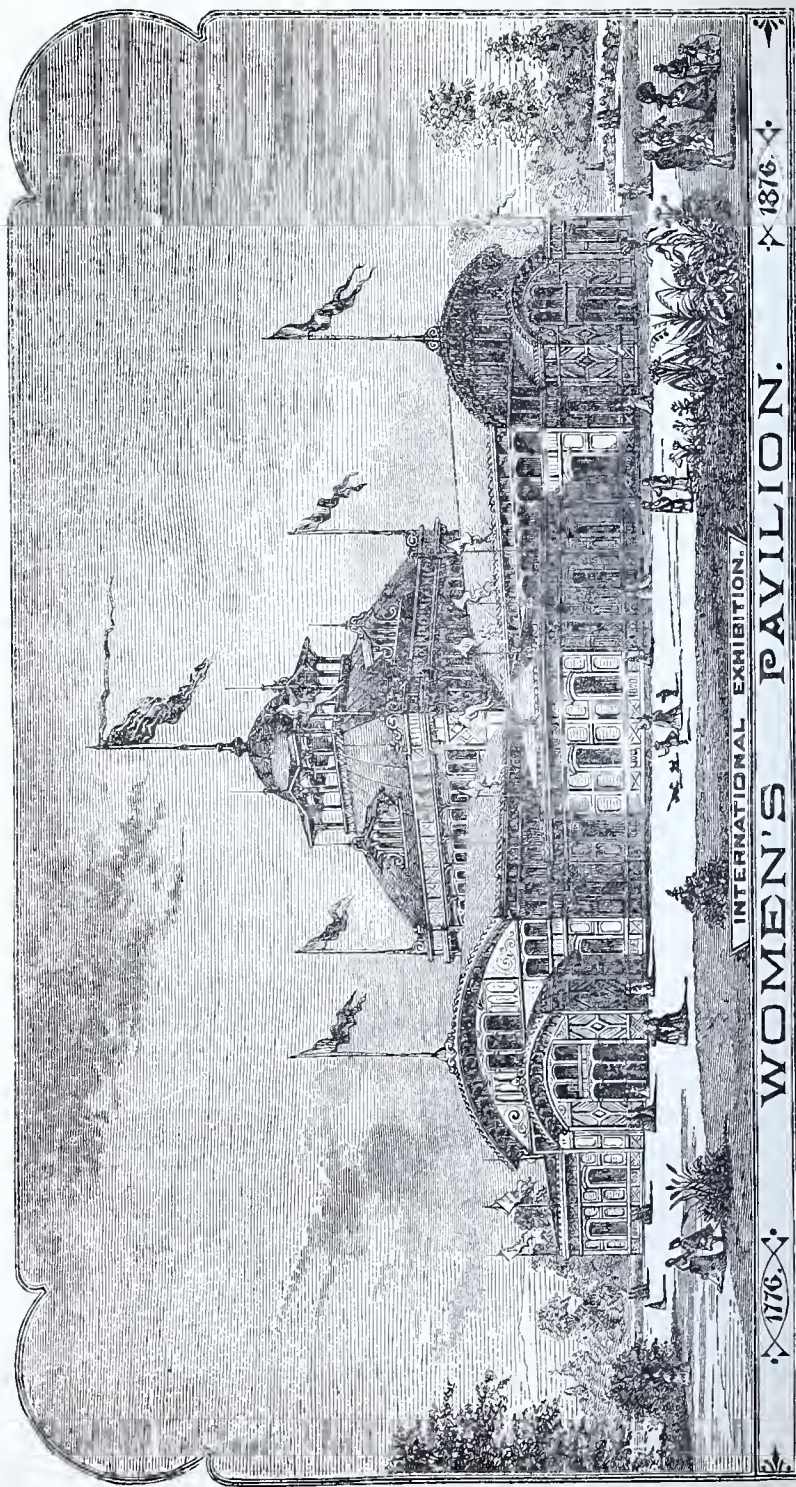


THE PATENT OFFICE CONTRIBUTION TO THE CENTENNIAL.



Mr. Edward H. Knight, who will represent the Patent Office at the Centennial Exposition, states that the exhibition of this office is being prepared upon a scale of five thousand models, representing the various mechanic arts. These will be associated in groups, the models in each group arranged in sequence illustrating the successive operations upon raw materials and their products in various stages. The classification will probably extend to about thirty groups, the number of models in their respective classes varying between one hundred and five hundred. Many models have a certain historic value, while others are beautiful pieces of machinery. It is expected this particular exhibition will be creditable to the Government, satisfactory to the people, and profitable to the inventors. The space required for the exhibition will be about 10,000 superficial feet. The workings of the Patent Office will be illustrated by a force of examiners and clerks.





THIS ELEGANT BUILDING, located on Belmont Avenue, near the Horticultural Grounds, covers an area of 30,000 square feet. The material is wood, roofed over by segmental trusses. It contains, in addition to space for exhibits, toilet and reception rooms. In it only articles the results of woman's labor are to be exhibited. The whole cost, including internal decorations, will be about forty thousand dollars. Great credit is due the Women's Centennial Executive Committee, of which Mrs. E. D. Gillespie is the efficient President, for so

HOW BLANK BOOKS ARE MADE.

We learn that book binding is one of the most ancient of all the arts. Books were formed into quarto and folio at a very early period, and once in that form, a cover was a natural consequence. Books in manuscript were so made in Catulius' time, and in the age of King Actalus a method of preparing skins for writing on both sides was discovered, and the king ordered the leaves to be made square, and afterwards put into covers. Specimens of illuminated manuscripts in binding, executed before the invention of printing, are still in existence, and there is proof that the art of binding, in fair perfection, has been practiced for nearly twelve hundred and fifty years.

The custom of keeping accounts in books is of great antiquity, and has become universal. The books formerly used were without ruled lines, but now, by the aid of machinery, lines are ruled across the sheets, to any pattern, in a variety of colors.

People in this day can scarcely appreciate the advantages of this improvement, unless they have attempted to rule lines on the pages of a book with pen or pencil. The labor and annoyance of such an operation can now be avoided by having the paper ruled exactly to the required pattern before being bound. In the manner of fastening together the leaves of a book the changes are less marked; indeed, the process of sewing the sheets on cords, the ends of which are fastened in the covers, remains substantially the same as it has for centuries, the only important change being that, ordinarily, grooves are sawed across the backs of the folded sheets, in which the cords lie, where formerly they were outside. Sewing on parchment slips is also very common, but when a strong, flexible back is required, the former process is preferred. The "patent," or open spring back, is a modern invention. The "tight" back, the leather being glued or pasted directly to the backs of the folded sheets, is now generally confined to the smaller books and cheap grades.

In ancient times, and until near the close of the last century, vellum was the only material used for covering books; afterwards, dressed calf and sheepskins were introduced. To these are now added Russia leather, cowhide, goatskins, muslin, cloth, and paper. Formerly, the binding was "finished" very plainly; now, the styles are in great variety, and sometimes very elaborate.

The city of Philadelphia has always been celebrated for the extent and importance of her manufactures, the products of her mills and workshops being distributed through every State in the Union. In early times her booksellers and publishers were also printers and binders, but in later years these different branches of the book trade have been separated, blank book making becoming a distinct business. Prominent among the houses engaged in this business stands that of THOMAS W. PRICE Co. The elder Mr. Price commenced business in a very limited way, in a small upstairs room, in the year 1846, after faithfully serving a long apprenticeship, and working some time as a journeyman. His untiring industry, energy, and

sterling integrity insured his success, and in a few years he was able to remove to more commodious quarters, at the corner of Fifth and Chestnut streets. His success continued until a disastrous conflagration, involving this building, consumed his entire establishment. But he was equal to the occasion.

Residing in another part of the city, and about to retire for the night, his attention was attracted by the ringing of bells and noises in the street. On ascending to the roof he saw that the fire was evidently near his place of business, and hurrying to the scene, arrived in time to see the roof fall in, and to witness the entire destruction of that business block. Before returning to his home he leased another building, and made some preparations for renewing his stock and machinery, and during the next morning several of his hands were working for him in neighboring binderies, by courtesy of his friends in the trade. Mr. Price's calamity gave a new impetus to his energetic character, and soon he added the adjoining building to his establishment. After a few years' occupancy, the quarters became too contracted, and he determined to erect such a building as would meet the requirements of his business. Accordingly, in November, 1871, he removed to 505 Minor street. The building is 24 feet front and 85 feet deep, five floors and basement, and presents an imposing appearance. The basement is used for the storage of Binders' Boards, &c. The machines for cutting them of the required sizes are in close proximity. A beautiful upright engine furnishes the required power for all machines in the building, as well as for the elevator by which everything is carried to or from the different floors. The main floor contains the private and business offices, as also the stock of Blank Books and General Stationery, while on the second floor are stored the stock of Flat Writing Papers, Ruled Bill Heads, Envelopes, &c. This house deals largely in Printers' Stock of all kinds, a business that has grown to huge proportions. The third floor is devoted entirely to the ruling of paper, and the folding and stamping of letter and note papers. Besides a number of the latest improved single ruling machines, in constant operation, there are three double machines that deserve especial mention. Two of these rule the lines on both sides of a sheet of paper at one operation, while the other rules not only both sides, but in both directions; that is, the sheets of plain paper fed in at one end of the machine, come out perfectly and completely ruled on both sides, ready to be made up into books. The sewing, finishing, and paging is done on the fourth floor, and the forwarding on the fifth. The entire building is heated by steam, the tools are heated by gas, and no fuel is used, except under the boiler, beneath the sidewalk. Every precaution is used to prevent the possibility of fire. A large tank on the roof supplies water to the various rooms, while a steam force pump and reel of hose are kept ready for emergencies, and have rendered efficient service in the neighborhood.

The present firm went into operation January 1st, 1871. The gentlemen composing it have been identified with the pursuit for many years, during which time they have become thoroughly acquainted with the business in all its departments. Their establishment is well worth a visit and inspection, and every one interested, whether as purchasers or otherwise, will receive a hearty welcome.

THE WITHERSPOON MONUMENT.

John Witherspoon, D. D., LL. D., was a distinguished divine, and one of the signers of the Declaration of Independence. He was born in Haddingtonshire, Scotland, in 1722. In 1766 he was offered the Presidency of Princeton College, New Jersey, which, in 1768, he accepted, and also filled the Divinity Chair in that institution. He was elected in 1776 to the Continental Congress, and was very active in promoting the cause of independence.

The monument is to be placed facing the curb of Lansdowne drive, a short distance east of the Memorial Building, and on the line of the east side of the main building. The figure represents Mr. Witherspoon in a standing posture, with a scroll in his left hand, his right outstretched, and a cloak hanging from his shoulder. It will be of bronze, twelve feet high, colossal size. The pedestal will be of granite, and the whole will cost about \$25,000.

THE MONUMENT TO LIBERTY,

To be erected in Independence square during the Centennial year, will be about 60 feet in height and 20 feet in width at the base. At the top is the figure of Liberty, 21 feet high; on her heart is the ægis of liberty; upon her head is the Phrygian cap of liberty; her right hand grasps the American flag, and her left hand rests upon the American shield, bearing the national coat-of-arms. Upon the upper pedestal is a frieze, or procession, of forty-eight female figures, six feet in height, representing the several States and Territories. Upon the front of the lower pedestal is the national emblem, the eagle and thirteen stars; on the other three sides are the emblems of agriculture, of commerce, and of literature and the arts, and below these are the coats-of-arms of each State and Territory. At the corners of the lower base are four heads of the American bison or buffalo, typical of our boundless Western prairies, the whole forming a noble, majestic and beautiful design.

A PHILADELPHIA INSTITUTION.

We are indebted to GEORGE W. CHILDS, Esq., proprietor of the "Public Ledger," for the beautiful map of the "Park" which illustrates our Calendar. By the way, the "Ledger" is an institution of which Philadelphians are justly proud. Founded in 1836, it has continued to increase in circulation and influence until it numbers a quarter of a million daily readers. The magnificent block of buildings corner of Sixth and Chestnut streets, bearing its name and largely occupied for its own uses, testifies to the energy and faith of its enterprising proprietor. The machinery, presses, offices, everything connected with the establishment is of the most perfect kind, and consequently very attractive to visitors interested in the examination of such evidences of prosperity.

STATUE OF WILLIAM PENN.

The Penn statue, by Bailey, of Philadelphia, will be of bronze, and thirty feet in height. The figure stands as if in the act of explaining the original plan of the city, which rests upon the stump of a tree. When cast it will be placed in the Park, and remain there until the completion of the public buildings on Broad and Market streets, when it will be set as a finial upon the dome. This, it is estimated, will be fully 500 feet above the sidewalk, making it the highest specimen of terminal architecture in the world. Bailey's excellent statue will prove a most fitting pinnacle to the enormous structure.



THE MEMORIAL MEDALS.

In order to permit universal participation in the patriotic work of celebrating the Centenn of American Independence, the United States, by a special act, authorized the U. S. Mint prepare, and the Centennial Board of Finance to issue, a series of magnificent MEMORI MEDALS, bearing appropriate designs, the production of a talented and skillful artist, and ecuted by the United States Mint, thus enabling all our citizens to hold an evidence of th patriotism and sympathy with the Great Celebration of 1876.

These "Memorial Medals" are of four descriptions, to bring them within the taste a means of all, viz.: In large Bronze at \$2; large Gilt, at \$5; small Silver, at \$3; and small G at \$1. In addition, the four Medals can be had neatly arranged in one case, price \$11. T fac-simile annexed is of the size of the first and second of these, the small silver and gilt bei the size of the American dollar, with the same obverse design, but bearing on the centre of t reverse the inscription: "In commemoration of the Hundredth Anniversary of Americ Independence, 1876," surrounded by the words: "By authority of the Congress of the Unit States."

The design of the "Obverse" on all of the medals represents the Genius of American Inc pendence rising from a recumbent position, grasping with her right hand the sword which is enforce her demands, and raising her left in appealing pride to the galaxy of thirteen sta which, indicating the original colonies and States, are blazing in the firmament. Beneath the date, 1776. The "Reverse" on the large medals displays the Genius of Liberty, with now ornamental sword buckled to her girdle, the shield of the Stars and Stripes leaning at r while with either hand she extends a welcome and a chaplet to the Arts and Sciences assembl with evidences of their skill and craft to do honor to the date 1876, which is inscribed up the platform. The history of our great nation is depicted in these two designs; and as a wo of art, a memento of the Centennial, or as a means of contributing to its celebration, the Memorial Medals should be objects of universal appreciation.

Orders for the Medals should be addressed to the BUREAU OF REVENUE, 904 Wall Street, Philadelphia.

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